**Project I** 

# "Implementation of web algorithm of an ERP system"

Submitted in partial fulfillment of the requirements for the degree of

### **Bachelor of Engineering**



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This is to certify that the project entitled *Implementation of web algorithm of an ERP system* is a bonafide work of **Sudhanshu Somnath Singh (16ET31)**,**Ninad Ramakant Sail (17DET58)**, **Abhijit Jagannath Shinde (17DET64)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **Bachelor of Engineering** in **Department of Electronics and Telecommunication Engineering**.

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# **Project I**

# **Approval for Bachelor of Engineering**

This project entitled *Implementation of web algorithm of an ERP system* by *Sudhanshu Somnath Singh (16ET31),Ninad Ramakant Sail (17DET58),Abhijit Jagannath Shinde* (17DET64) is approved for the degree of *Bachelor of Engineering in Department of Electronics and Telecommunication Engineering.* 

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+ ENGINEER	
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### Declaration

We declare that this written submission represents my ideas in my own words and where others ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.



### Acknowledgement

It is our great pleasure to present this report, a written testimonial of a fruitful experience. It would be unethical on my art to claim complete credit for the project. We therefore take this opportunity to express acknowledgement to all those individuals who helped in making our project a success.

We are highly indebted to Asst. Prof. Awab Faikh for guidance and constant supervision as well as for providing necessary information regarding the project. We would also like to thank Asst. Prof. Afzal Shaikh (HoD-Electronics Telecommunication Department) working with whom is a delightful and wholesome learning experience. We would like to express my sincere gratitude towards Mr. Sudarshan Karnavat (Founder-spynPRO) Mr. Saqib Ghate (Founder-Hertzsoft Technologies) for offering us an internship and allowed to gain industrial exposure through it.

We would also like to thank Asst. Prof. Siraj Pathan for project co-ordinator and faculty for their remarks and suggestions during progress of the project work. They have given us the direction and has made us understand the project better.

Our sincere thanks to teaching non-teaching staff without whom this wouldn't have been possible. We will be grateful for their guidance, support and help whenever we needed it. Our thanks and appreciations also go to my colleague in developing the project and my friends who have willingly helped me out with their abilities.

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### Abstract

#### Tittle : Implementation of web algorithm for an ERP system

Enterprise Resource Planning (ERP) system consists of different sets of software that are used to integrate the business functions in a company or organization. Given that these solutions provide an integrated solution to the needs of an organization, these systems are in high demand by all organizations. The full potential of these systems can only be realized only if they are successfully implemented

However, the implementation process is costly and time consuming, and thus requires careful planning and organization. If successfully implemented, ERP systems provide many benefits to those organizations that adopt them. On the other hand, if the implementation process is not successful, the venture can prove costly.

The different streams of research on ERP systems have mainly been on ERP adoption, success measurement, and critical success factors (CSFs).



# Contents

	Proj	ect I Ap	proval for Bachelor of Engineering	ii
	Dec	laration		iii
	Tabl	e of Cor	ntents	viii
	List		res	xi
1	Intr	oductio	n uction	1
	1.1	Introdu	uction	1
	1.2	Object	ive of the Study	1
	1.3	Resear	rch Methodology	2
	110		Pragmatic Approach or Mixed Method for Research	2
		- Contract - 199	Data Sources	2
			Data Preparation and Analysis Method.	2
	1.4		tion of the Study	- 3
				5
2	Lite	rature l		4
	2.1		orise Resource Planning (ERP)	4
	2.2	Backg	round	5
	2.3	and the second se	mentation of ERP	5
	2.4	Selecti	ion of ERP	5
	2.5	Modul	les of ERP	6
3	Skil		red for Product Development Framework	14
	3.1	Techni	ical Skills Requirement	14
		3.1.1	ical Skills Requirement	15
		3.1.2	CSS	15
		3.1.3	Bootstrap	16
		3.1.4	JavaScript	17
		3.1.5	jQuery	18
		3.1.6	SQL	18
	3.2	Marke	ting Skills Requirement	19
		3.2.1	SEO (Search Engine Optimization):	19
		3.2.2	SEM (Search Engine Marketing):	21
		3.2.3	SMM (Social Media Marketing):	22

4	Wor	king of Product Development Framework	28
	4.1	Dashboard	28
	4.2	Blogs	28
	4.3	Training Section	30
		4.3.1 Enquiry:	30
		4.3.2 Courses:	31
		4.3.3 Batches:	32
		4.3.4 Students:	36
	4.4	Final year projects	37
	4.5	Clients	38
	4.6	Enquiry	40
	4.7	Meetings	43
	4.8	Project management	44
		4.8.1       Agreement :	46
		4.8.2 Invoice :	46
		4.8.3 Receipt:	48
		4.8.4 Timeline :	49
	4.9	Human Resource	51
		4.9.1 Employee :	51
		492 Intern	52
		4.9.3 Attendance	54
		4.9.4 Leave Management	55
		4.9.5 Feedback	56
		4.9.6 Appreciation	56
	4.10	Finance management	57
		4.10.1 Donations :	57
		4.10.2 Expenditure :	58
		4.10.3 Salary :	59
		4.10.4 Contract pay :	61
		4.10.5 Reports :	62
	4.11	4.10.5 Reports :	64
	4.12	Marketing	65
		Research and Development	66
5	Mar	keting Plan for an ERP system	68
	5.1	Marketing for Brand advocacy	69
	5.2	Marketing strategies for an ERP system	69
		5.2.1 Factors affecting the marketing strategies	69
	5.3	Branding through Traditional Marketing	70
	5.4	Branding through Social-media Marketing	70
		5.4.1 Branding through Facebook	71

		5.4.2	Branding through Instagram	72
		5.4.3	Branding through Linkedin	72
6	Con	clusion		74
7	The	sis Plag	iarism Report	75
8	Inte	rnation	al Conference	79
	8.1	Abhiji	t and Sudhanshu's Paper Acceptance Letter	80
	8.2	Ninad'	's Acceptance Paper Letter	82
	8.3	Abhiji	t and Sudhanshu's Paper Plagiarism Report	83
	8.4	Ninad'	's Paper Plagiarism Report	84
	8.5	Abhiji	t and Sudhanshu's Paper Copyright Form	85
9	Inte	rnship		91
	9.1	Sudhar	nshu's Internship Offer Letter	92
	9.2	Abhiji	t's Internship Offer Letter	93
	9.3		's Internship Offer Letter	94
Re	eferen	ices	FLOW DESTRICT A FLORE	95

1

BAI - INDIA

Codes

98

NAVI MUM

# **List of Figures**

2.1	ERP System Concept
3.1	HTML5
3.2	Bootstrap Table
3.3	IS Code 17
3.4	jQuery Example Code
3.5	SQL Example Code
3.6	Organic traffic through SEO 20
3.7	Search engine result page
3.8	Tools for social media marketing
3.9	Timeline for facebook marketing
3.10	Example of facebook marketing
3.11	Example for twitter marketing $\ldots \ldots \ldots$
3 12	Example for youtube marketing 27
4.1	Add Blog Form   29
4.2	Add Blog Form
4.3	List Blog in Table
4.4	Add Enquiry Form
4.5	List Enquiry Table
4.6	Add Courses Form
4.7	Add Courses Form
4.8	Add Courses Form       32         List Batches Table       32
4.9	Enroll students Form
4.10	Batch Details of Attendance Form
4.11	Batch Attendance Form
4.12	Batch Attendance Record
4.13	Batch Details
4.14	Payment Details
4.15	Student Table
4.16	Add Student Form
4.17	Add Final Year Project Form    38
4.18	List of Final Year Project

4.19 Add client information form	39
4.20 Client list table with edit and delete option	39
4.21 Add enquiry form	40
4.22 list of Enquiries	40
4.23 Add Estimate Form	41
4.24 Add Estimate Form	41
4.25 list of Estimates	42
4.26 List of Status	42
4.27 Estimate Bill	43
4.28 Add Meeting form	44
4.29 List of Meeting	44
4.30 Add Project form	45
4.31 Add Project form	45
4.32 List of Projects	46
4.33 Add Agreement Form	46
4.34 Add invoice form	47
4.35 Invoice format	48
4.36 Add receipt form	48
4.37 Receipt Format	49
1.28 Add timeling form	50
4.39 List of Timelines	50
4.40 Add Employee Form	51
4.41 Add Employee Form	52
4.42 List of Employees	52
4.43 Add Intern Form	53
4.44 Add Intern Form	53
4.45 List of Interns	54
4.46 Add Attendance Form	54
4.47 Add Attendance Form	55
4.48 Add Leave	55
4.48       Add Leave	56
4.50 Add Feedback	56
4.51 Add appreciation Form	57
4.52 Add Donation Form	58
4.53 List of Donations	58
4.54 Add Expense Form	59
4.55 List of Expenses	59
4.56 Generate Salary Slip	60
4.57 List of Salary Slips	60
4.58 Salary Slip Format	61
4.59 Add contract pay Form	62

4.60	List of contract pay	62
4.61	Form to View Reports	63
4.62	List of Reports	63
4.63	Add Domain Hosting Form	64
4.64	List of Domain Hosting	65
4.65	Add Marketing Form	65
4.66	List of Marketing Entries	66
4.67	Add Research Development Form	67
4.68	List of Research Development Entries	67
5.1	Branding through Facebook	71
5.2	Branding through Instagram	72
5.3	Branding through Linkedin	73
9.1	Project Codes	98

26

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# **Chapter 1**

# Introduction

# 1.1 Introduction

ERP is a system that automates the task necessary to perform a business processes. It replicates the business process into software, also guides employees step -by -step automate as many procedure. Hence its main aim is to serve backbone for complete business. Most of the companies uses ERP system like Godrej, Mahindra and Mahindra etc. Also most of the educational institutions are using ERP system nowadays in order to sort the things easily. [1] Many authors have mentioned that the implementation of ERP solutions in higher education institutions as difficult process. ERP simply works on the CRUD (Create, Read, Update, Delete) operations. ERP is completely build on the DMS(Database Management System). ERP result to be a cost effective software, where the organization of data is in a better manner. ERP system leads to the security of the data. The managing mechanism of this system is quicker than other methods. It also saves a lot of time in educational institution as taking attendances in the registers is like old techniques [3]. [1] ERP system is introduced in higher institution as it has become largest software investment as compare to any organizations. ERP system helps to identify the organization process and documenting with the help of the personnel. The Attendance of employee services and the daily affairs is completely maintained and updated at each and every single execution. It provides different data from multiple places to a single platform.

# **1.2** Objective of the Study

The investigation of ERP usage and building up the system of how to ideally market and sell our item utilizing present day showcasing strategies. The fundamental targets of this investigation are:

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- The usage of ERP process with selective highlights and market request.
- Comparison between different ERP frameworks and demonstrating the prevalence of our item in target showcase.
- Learning the Product improvement cycle as effective way the item will speak to target crowd.
- Marketing the item in focal point of offers age.

# 1.3 Research Methodology

The term 'philosophy' signifies an "investigation of and justification for the specific technique or strategies utilized. For this examination practical methodology or blended strategy is applied.

### **1.3.1** Pragmatic Approach or Mixed Method for Research

The sober minded way to deal with science includes utilizing the strategy which shows up most appropriate to the examination issue and not becoming involved with philosophical discussions about which is the best approach. Practical specialists thusly award themselves the opportunity to utilize any of the strategies, systems and methods regularly connected with quantitative or subjective research. They perceive that each technique has its restrictions and that the various methodologies can be reciprocal. They may likewise utilize various systems simultaneously or

in a steady progression. For instance, they may begin with eye to eye interviews with a few people or have a center gathering and after that utilization the discoveries to build a survey to gauge mentalities in a huge scale test with the point of doing measurable investigation.

Contingent upon which measures have been utilized, the information gathered is broke down in the fitting way. Nonetheless, it is some of the time conceivable to change subjective information into quantitative information and the other way around despite the fact that changing quantitative information into subjective information isn't extremely normal.

Having the option to blend various methodologies has the benefits of empowering triangulation. Triangulation is a typical component of blended techniques thinks about. It includes, for instance:

The utilization of an assortment of information sources (information triangulation)

The utilization of a few distinct scientists (examiner triangulation)

The utilization of various points of view to decipher the outcomes (hypothesis triangulation)

The utilization of numerous techniques to think about an examination issue (methodological triangulation)

In certain investigations, subjective and quantitative techniques are utilized all the while. In others, initial one methodology is utilized and after that the following, with the second piece of the investigation maybe developing the consequences of the first. For instance, a subjective report including top to bottom meetings or center gathering exchanges may serve to get data which will at that point be utilized to contribute towards the advancement of a test measure or frame of mind scale, the consequences of which will be examined factually.

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# 1.3.2 Data Sources

- Working with ERP Developers and direction from them.
- Competitors inquire about
- Market overviews
- Internet

### **1.3.3** Data Preparation and Analysis Method.

Information Preparation is the way toward gathering, cleaning, and combining information into one record or information table for use in examination. The way toward planning information for the most part involves amending any blunders (normally from human as well as machine information), filling in nulls and deficient information, and blending information from a few sources or information positions. The procedure of information arrangement ordinarily includes: Information Analysis – The information is evaluated for mistakes and irregularities to be remedied. For enormous datasets, information readiness applications demonstrate accommodating in creating metadata and revealing issues. Making an Intuitive Workflow – A work process comprising of a grouping of information prep tasks for tending to the information blunders is then planned. Approval The accuracy of the work process is next assessed against an agent test of the dataset. This procedure may call for changes in accordance with the work process as beforehand undetected mistakes are found. Change – Once persuaded of the viability of the work process, change may now be done, and the real information prep procedure happens. Reverse of Cleaned Data – Finally, steps should likewise be taken for the spotless information to supplant the first grimy information sources.

# **1.4** Limitation of the Study

Like some other articles and postulation, this investigation isn't free from confinement. Most elevated level of endeavors has been given to beat these constraints through broad investigation. The significant impediments are given beneath:

- ERP programming is a secret issue and it doesn't unveil to other people.
- ERP programming controls all business procedure of an association, so study on each procedure is tedious.
- Relevant information and archive accumulation were troublesome. As a part of the Bachelors of Engineering program, all students are required to complete a final year project. This report is the outcome of our developed skills during internship program and utilization of those skills in our final year project. The topic of our Project is "Developing Marketing an ERP System.

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# **Chapter 2**

# **Literature Review**

# 2.1 Enterprise Resource Planning (ERP)

ERP is the most required tool in the market of organization right now. Even the educational institutes are demanding this system because this system can handle n number of data at a same time also we can get those data at a glance when required.

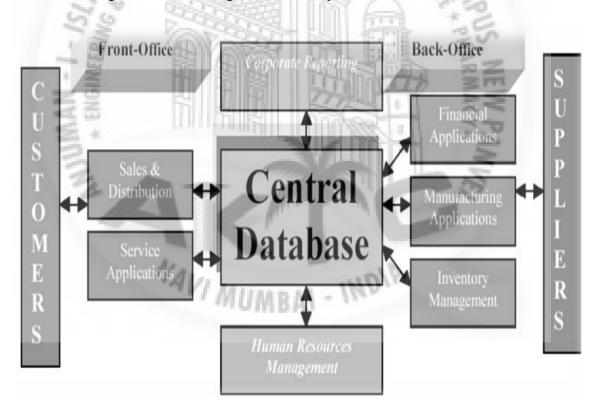


Figure 2.1: ERP System Concept

[Link:

http://what-when-how.com/information-science-and-technology/evolution-of-erp-systems/]

# 2.2 Background

Developing an ERP system is completely based on the client requirements. An simple ERP system simply has the sections like attendance, user information, person's achievement details etc. But due to the modern technologies the requirements are increasing drastically. In every ERP system the generic requirements that are provided is,

- 1. Dashboard
- 2. Training
- 3. Clients
- 4. Enquiry
- 5. Meeting Management
- 6. Human Resource
- 7. Finance Management
- 8. Communication
- 9. Change Support
- 10. Attendance

# 2.3 Implementation of ERP

Implementing an ERP system is not an easy task to achieve. It's a big process which involves great expenditures, efforts and time [14]. The most important factor in this project which leads towards the success is the implementation phase [13]. Implementation of ERP systems allows a company to handle its business for various advantages like improved process flow, better data analysis, and better customer service [7]. In addition, advantages expected from implementation of ERP systems includes reduced costs, reduced operations time, and organization having more customer values.[12]

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ERP is the major project which is currently in demand from all the organization irrespective of the size. Since this system plays a major role in every organization, the issues covering the process of implementation is one of the major concerns. And it further makes situation more complex because of the many failed cases, including some fatal disasters which caused a huge loss for the industry. Hence, It is necessary for the developer of ERP and the company to firstly analyze the system because the risk of failure is always there and sometimes it can be highly expensive[4]. One of the popular topics on the implementation of ERP is to improve Critical Success Factor (CSF) [7]. According to [8], the life cycle of product is now very short and technology is changing drastically due to which new factors may arise. Likewise, while the CSF for implementation of ERP systems is mentioned, there have been many inconsistent and inconclusive findings [9]. The major factor which recognized as the most crucial part in the implementation of the ERP system is the selection process [15].[6] In order to deal with these, companies have to respond quickly with their production while keeping the cost efficient factor in mind.

Many factors which directs towards the success or failure of the ERP implementation can only be learned from the prior implementation experiences [10]. According to [5] it caused a huge interest amongst the vendors so that they look towards improving future ERP system to support the customers present at the other end.

# 2.4 Selection of ERP

Once the BPR is completed the next task is to evaluate and select a suitable package for implementation. Evaluation of the right ERP package is considered as more crucial step. Evaluation

and selection involves:

- Checking whether all functional aspects of the Business are duly covered.
- Checking whether all the business functions and processes are fully integrated.
- Checking whether all the latest IT trends are covered.
- Checking whether the ROI is optimum.



# 2.5 Modules of ERP

"Hertzsoft Admin Version 3" consists of 21 modules which are explained below.

#### Module 1 : Dashboard :

Module 2 : Mailing (member@hertzsoft.com) a. Inbox: Users will get all their mails sent on his Hertzsoft email account. The mails will be automatically categorized into 2 different tabs. No item and no list separation:

- i. Primary Mail: This tab will be display emails sent by other Hertzsoft members such as contact@hertzsoft.com.
- ii. Other Mails: This tab will display emails sent by non Hertzsoft Email IDs such as Gmail, Yahoo etc.

**b.** Compose Mail: Users can compose mail by writing Subject, To, CC, BCC, Content, File Attach etc. A mail will be sent to all the recipients.

c. Draft: If user want to save mails as Draft before sending, uses can save it as a Draft.

d. Sent Mail (if possible): User can check the mails sent in this tab.

e. Trash (If possible): Deleted mails will be added in Trash which can be either restored or deleted permanently.

**f. Notification:** Users will get a notification whenever mail arrives in Inbox (irrespective of category)

#### Module 3 : Blogging:

**a. View Blogs:** Users can view a list of all blogs (Using DataTable). An extra column for Edit, Delete Authenticate blog. Edit and delete option will be available for self-uploaded blogs only. Authenticate blog will be visible to Admin only.

b. Add Categories: Users can add new categories. (E.g. Hertzsoft, Technology, Research)

**c. Add Blog:** Users can post blogs on Hertzsoft Official Website with Subject, Content, Category, Image Attachment.

d. View Comments: Users can view comments posted by website users.

#### **Module 4 : Training:**

**a. Enquiry:** Users can view a list of all new Enquiries (Using DataTable). An extra column for Edit Delete Enquiry will be available.

- i. Add Enquiry: Users can also add new enquiry.
- ii. Add Enquiry Status: User can change enquiry status along with follow up date. Moreover, user can set the status as cancelled or approved.
- iii. View All Enquiry Status: User can view all enquiry status according to follow up date.

**b.** Courses: Users can view a list of all Courses (Using DataTable). An extra column for Edit Delete Course will be available.

Add Course: Users can also add new courses.

**c.** Batches: Users can view a list of all Batches (Using DataTable). An extra column for Edit Delete Batch will be available.

- i. Batch Details: On clicking a batch, complete details of the batch should be displayed including number of students admitted (refer Module 4.c), payment details i.e. payment received and payment pending. User should also be able to remove a student from a batch (if admitted by-mistake or if student cancels admission)
- ii. Add Batch: Users can Add a Batch with following details Batch Name | Start Date | Trainer | Students | Fees | Total Expected | Total Paid | Total Balance

d. Student: Users can view a list of all Students (Using DataTable). An extra column for Edit

Delete Student will be available.

Add Student: Users can Add a Student with following details. Student Name | Contact Number | Email | Batch Code | Fees Paid | Balance

**e.** Attendance: User can select a batch, lecture date timing. A list of all students enrolled for a particular batch will be visible with a checkbox by default all checked. User can simply uncheck absent students and submit their attendance. Lecture Start Time and End time should also be noted.

i. Attendance Record: Attendance Record of All Students Batch wise, Student wise should be available.

**f. Payment:** Whenever a student pays an installment or full payment. Its entry should be made with following details. This module will also contain Payment Record.

- i. Payment Record: Payment record of all batches will display here.
- ii. Payment Reminder Mail, SMS WhatsApp Message: Payment Reminder Mail, SMS WhatsApp message should be send to all the students after starting with batch every 2 days if student have any pending fees.

**g. Course Certificate Number:** Whenever student gets a certificate. Its serial number should be recorded on the system which can be further checked on official website of Hertzsoft. Student Name | Certificate For (Textarea) | Date | Course | Certificate Serial Number

#### **Module 5 : Final Year Projects:**

**a. View Projects:** Users can view a list of all final year projects (Using DataTable). An extra column for Edit, Delete Authenticate project will be visible. Edit and delete option will be available for self-uploaded Final Year Projects only.

**b.** Add Final Year Project:Users can add Final Year Projects on Official Website with following parameters: Title | Abstract | Cost | Base IEEE Paper | YouTube Video URL (if exists).

#### Module 6 : Clients:

a. View Clients: Users can view a list of all clients (Using DataTable). An extra column for

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Edit Delete will be visible.

**b.** Add Client: Users can add Clients with following details:

Client Name | Contact Number | Address | Email ID | Password | Organization Name | Address

| Website |Date of Adding should be automatically recorded.

#### Module 7 : Enquiry:

**a. View Enquiries:** Users can view a list of all enquiries (Using DataTable). An extra column for Edit Delete will be visible.

**b.** Add Enquiry: Users can add Enquiry with following details: Client ID | Project Title | Project Details | Date of Enquiry | Status (Active / Finished)

**c.** Create Estimate: Users can add Estimate with following details: Client ID | Project Title | Products Quotations

**d.** Add Status: Users can add Status with following details: Status Follow Up Date Time (if required) | Date of Status (automatic)

#### Module 8 : Meetings Management:

**a. View Meetings:** Users can view a list of all client meetings (Using DataTable). An extra column for Edit Delete will be visible.

b. Add Meeting: Users can add Meeting with following details: Client ID | Project ID | Date |Start Time | End Time | Minutes of Meeting

**i. Meeting Thank You Mail:** A mail can be send from Hertzsoft (if required) thanking client for spending time with us and sending them Minutes of Meeting.

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#### Module 9 : Projects Management:

**a. View Projects:** Users can view a complete list of all projects (Using DataTable) sorted by Date (Latest First). An extra column for Edit Delete will be visible.

b. Add Projects: Users can add Projects with following details: Project Title | Project Type |
 Description | Customer ID | Project Manager | Team Leader, Total Cost | Order Date | Deadline
 | SRS Upload

c. Manage Team Members: Add / Delete records of Employee / Interns working on the

project.

**d. Create Agreement:** This option will help to autogenerate an agreement as per the format prescribed by the company.

e. Generate Invoice: Auto Invoice Generation option according to format of Hertzsoft using following parameters: Client Name | Address | Email | Website| Quotation

**f. Add Payment:** This option can help to accept payment from clients. Auto Receipt should be generated with following parameters:

g. Generate Receipts: Auto Receipts Generation according to format of Hertzsoft.

**h. Payment Reminder Mail, SMS WhatsApp Message:** Payment Reminder Mail, SMS WhatsApp message should be send to all the clients after starting with batch every 2 days if student have any pending fees.

. Task Division: Create a timeline chart. Divide full project into different modules. Create timeline chart. Decide Planned Completion Date Mark when it is actually completed. This will be visible to client on client portal in the form of timeline chart. These details should be automatically added in To Do List.

#### Module 10 : Human Resource:

a. Employee: Employee Name, ID, Passport Size Photo, Email, Password, Contact, Qualification, Date of Birth, Date of Joining, Designation, Department, Recent Degree Marksheet Scan LC (if available), UID No., UID Scan Image Upload, PAN (No + Scan Image Upload), Salary.
b. Interns: Interns Name, ID, Passport Size Photo, Email, Password, Contact, Qualification, Date of Birth, Date of Joining, UID No., UID Scan Image Upload, PAN (No + Scan Image Upload), Salary.
b. Interns: Interns Name, ID, Passport Size Photo, Email, Password, Contact, Qualification, Date of Birth, Date of Joining, UID No., UID Scan Image Upload, PAN (No + Scan Image Upload), Stipends (Monthly / Contractual), Duration.

**c.** Attendance Management: Staff's daily attendance record will be maintained along with in-time and out-time details. (More details awaited regarding Holidays Compensatory Offs)

#### d. Leave Management:

- i. Add Leave: User can add a leave request using following parameters: Leave Date From | Leave Date Till | Leave Days | Leave Type | Reason | Status (Approved / Rejected)
- ii. View Leaves (Admin Only): Admin can view all leave request and approve or reject Leave.
- iii. Penalty (LWP): Salary will be deducted automatically if an employee is absent with-

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out prior intimation.

e. Feedback: Employee can add an anonymous feedback to the admin.

**f. Appreciation:** Employee Interns can be appreciated by some special gifts along with certificate. This certificate serial number should be recorded on the system using following parameters Employee / Intern Name | Certificate for (TextArea) | Certi Serial Number | Date | Gift Given

Module 11 : Finance Management: This section will generate reports for following

a. Donation: Donation ID, Donor Name, Reason, Amount, Date

b. Expenditures: Expense ID, Reason for Expense, Date of Expense, Staff Associated.

**c.** Salary: Salary ID, Staff ID, Date Amount, Time, By Cheque / Cash / Account Transfer. This should help in Auto Generation of Salary Slips

**d.** Contract Pay: Pay ID, Staff ID, Task ID, Amount, Date, Time. This should help in Auto Generation of Salary Slips.

- e. Reports: This section will help to generate various reports in printable formats such as:
  - i. Total Earnings: Project Payment, Batch Payment, Product Income, AMC and Donations etc. w.r.t. selected date.
  - ii. Total Expenditures: Salary, Product, Contract Pay, Marketing Expense, Research Development Expense, Normal Expenses w.r.t. selected date
  - iii. Total Income Generated: Total Earnings Total Expenditures w.r.t selected dates.

Module 12 : Tasks (To Do List):

a. Add Personal Tasks: User can add a new task using following parameters: Task Name | Date | Deadline

**b.** Admin Tasks: Admin can add task to any employee which will be visible in a separate category Admin Tasks to the employee.

**c. View Tasks:** User can view all task Admin as well as Personal. A separate column for Edit Delete Tasks for personal Tasks only

**d. View Everyone's Tasks (Admin only):** Admin can view all tasks assigned to employee as well as employee's and his own personal tasks

#### Module 13 : Calendar:

#### ir.aiktclibrary.org

Dashboard Widget as well as separate page to show all Projects Deadline, Tasks Deadline, Batch Timings

a. Add New Event: Admins can add new events in the Calendar.

#### Module 14 : Communication:

a. Personal Messaging: Members can personally send a message to any other member.

**b.** Group Messaging: Members can send message to all other members on the Group.

#### Module 15 : Domain Hosting Information:

Widget as well as Separate Page that will display all Domains and Hosting ordered by Expiry Date. A renewal reminder email can be sent just on a button click to the client to renew Domain/Hosting.

#### Module 16 : Password Storage:

Need to generate a very strong Encryption Algorithm, which can be decrypted only by us. Passwords of various accounts will be stored here. This can be accessed only by Admin.

#### Module 17 : Change, Support Maintenance:

**a. View Request:** Users can view a list of all support request (Using DataTable). An extra column for Edit Delete will be visible.

b. Add Request: Users can add Request with following details: Request ID | Client ID | PID
| Support Details | Date of Request | Status (Active / Finished)

**c.** Create Change Request: Users can create Change Request (CR) with following details: Client ID | PID | Details| Quotation Auto E-mail will be sent to client.

d. Add Status: Users can add Status with following details: Status | Date of Status (automatic)

#### Module 18 : Marketing:

a. View Status: Users can view a list of Marketing Status. b. Add Marketing Status: User can add a new marketing status will following parameters Employee ID | Marketing Type | Details | Expense (if any) | Outreach Number | Date

#### Module 19 : Research Development:

Chapter 2. Literature Review IR@AIKTC-KRRC

a. View Status: Users can view a list of Research Development Status. b. Add Research

**Development Status:** User can add a new research Development status with following parameters: Employee ID | Details | Expense (if any) | Date

**Future Modules** 

Module 20 : AMC:

#### Module 21 : Products:

a. View Products: Users can view a list of all products.

**b.** Add Product: User can add a new product with following parameters: Product Name | Description | Date

**c.** Add Income: User can add income for a specific product with following details: Product ID | Amount | Source | Description | Date

**d.** Add Expense: User can add expense for a specific product with following details: Product ID | Amount | Description | Date



# **Chapter 3**

# **Skills required for Product Development**

# Framework

## 3.1 Technical Skills Requirement

NAVI MU

In this period, we started to know that what are the technologies or courses that are required to build a website. We started to learn those courses. Since the web development is a huge field itself, so there are lot many courses that are used to build a responsive websites. So basically web development is divided into 3 sections,

- 1. Front End
- 2. Back End
- 3. DataBase(DB)

#### 1. Front End:

**What is Front End?** Whatever the contents that you see on website, these all comes under front end section. You can achieve it using two of the languages i.e HTML CSS

- INDIA

#### 2. Back End:

What is Back End? The actions that are performed on a webpage completely based on the back end section. For eg. When you click on any button on a webpage so after clicking what event Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC

should occur is determined by backend programming. We can say that backend is responsible for the behaviour of a webpage.

Languages that we have learned is required to build our project is explained below

#### 3.1.1 HTML

HTML stands for Hyper Text Markup Language. Current version of HTML that is being used is HTML5. It is a client side scripting language. It's not a programming language, it is markup language. It is used to design static webpages. In HTML, Hyper means a link or a reference link to where you want to navigate, Text means data or information whatever the data you want to display on a webpage, Markup is a predefined terms that are present in HTML, Language is nothing but communication. HTML consists set of markup tags, that are used to design the layout of the webpage. Whatever the data we write we save it using .html extension. Currently HTML5 is used widely in web development because in previous version audio and video format was not supported and HTML5 supports both of it.



Figure 3.1: HTML5 [Link: http://www.webzip.in/tag/web-design-institute-in-chandni-chowk]

#### 3.1.2 CSS

CSS stands for Cascading Style Sheets. It is an styling language which use to make webpage more stylish. It is like makeup on simple page to look beautiful. there is type of css as follows:

1. Internal CSS

#### 2. External CSS

3. Inline CSS The main question rises is Why CSS?

Like every webpage, they have more than one or multiple pages but if you want to show same images on different pages or same contents on different pages so what are you going to do?? Write it multiple times? Well CSS does it for you, you can just determine the contents that you want to display on different page and just assign a class to it. Now import that CSS file to every page and use the class where you want to print those contents. That's it, this is how it makes to display contents easily. Same things can be done for any event like animation of page, colour of page, styling of page etc. CSS makes it simple. It reduces the line of program. That's why it saves a lot of time.

### 3.1.3 Bootstrap

Bootstrap is the most used and simple language to be used by HTML, css, javascript. which makes a developer work more simplex as developer have to only use the classes of bootstrap to build an responsive webpage. it is developed by twitter.

Why Bootstrap?

1. Supports responsive designs.

2. More Time saving

3. Consistency.

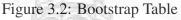
4. Customizable.

5. Support. Bootstrap is a pre build templates whose classes is used in order to make a web page attractive and responsive.

After the successful medication event details extraction through various mechanisms, our system will take care of scheduling and handle the time management process and will act as a medium for triggering the event.

Product ID	Product Name	Product Quality	Product Quantity
1	Wheat	Good	200 Bags
2	Rice	Good	250 Bags
3	Sugar	Good	200 Bags
3	Sugar	Good	200 Bags
3	Sugar	Good	200 Bags

Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC



[Link:https://www.jquery-az.com/bootstrap-table-with-5-demos-and-free-code/]

### 3.1.4 JavaScript

JavaScript is the language use in web-development and it has more wide scope. It has more faster growth then the other language and big companies like Netflix, Paypal builds internal application using JavaScript. For long time JS is used in browsers to build attractive webpages, some of the developers refers to JS as toy-language. But those days are gone due to huge development and investment by large companies like Facebook and Google. These days you can build real time networking applications like chats, video streaming services etc.

<pre>Memory = perturnant 1 module.exports = leftpad; 2 function leftpad (str, len, ch) { 3 str = String(str); 4 var i = -1; 5 if (!ch &amp;&amp; ch !== 0) ch = ' '; 6 len = len - str.length; 7 while (++i &lt; len) { 8 str = ch + str; 9 } 0 return str; 1 } 2</pre>	
3 4 5 6 7 8 9 9	

Figure 3.3: JS Code [Link:https://cms.qz.com/wpcontent/uploads/2016/03/leftpad.jpg?quality=75strip=allw=1600h=900crop=1]

### 3.1.5 jQuery

jQuery is a library that is built on top of JS which enables "less write do more" which means that you can do things that takes lot of line of code in javascript and you can do it in single or couple of line in jQuery. jQuery is fast, small, featurable library of JS. The main work of Jquery is make Developers work easy by simplifying JS on Web-page and it is one of the most widely used JS library. It's a old library but it is still being used by lot of developers. One of the best part of jQuery is it is cross browser compatible, open source.

(script type="text/javascript") \$(document).ready(function () .dd<sup>\*</sup>).mouseenter(function () { \$('.s\_links').stop(false, true).hide() chmenu = \$(this).parent().next(); menu.css({ position: 'absolute', top: \$(this).offset().top + \$(this).heigh left: \$(this).offset().left + 'px', zIndex: 1000 chmenu.stop().slideDown(500); chmenu.mouseleave(function () \$(this).slideUp(500); 10 1 ))i33; (/script)

Figure 3.4: jQuery Example Code [Link: https://www.webhostdesignpost.com/website/whatisjqueryandwhy.html]

### 3.1.6 SQL

SQL stands for Structured Query Language. Data is all around us, we used to store data on papers or in file cabinet but eventually now we store it online what we call Databases. SQL is the language which communicates with databases. If you want to add, remove, delete data from database then you can use SQL to perform such actions. We can perform by using SQL queries like UPDATE, INSERT, DELETE etc.

Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC

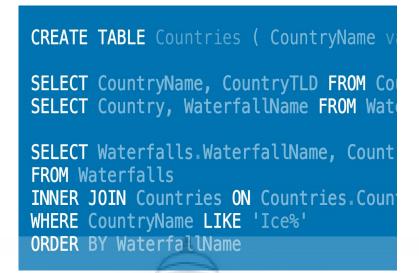


Figure 3.5: SQL Example Code

[Link: https://cdn.lynda.com/course/580646/580646-636924001862842177-16x9.jpg]

### 3.2 Marketing Skills Requirement

#### **3.2.1** SEO (Search Engine Optimization):

Search engine optimization (SEO) is the process of generating organic traffic affecting the visibility of a web page searching results for Search engine such as Google, Yahoo, etc. SEO involves promoting a website to increase the traffic that will result in lead generation.

SEO usually defines the content what people usually searches, basically it goes along the most significant search keywords, trending topics which people like to search. It determines, how people use the search engine to surf their need on Internet.

Lets say, if I want a "Avurvedic Soap" that is easily available in market. I will search for "Best Avurvedic Soap" instead of "Soap" or "Bath". Simply I want to prove that, people usually search for simplest formulated words that will end with maximum finding words. The relevance of such words are determined by SEO tactics.

SEO is not an easy task, it needs lot of patience. The fundamental increase in the ranking of the website on simple terms, "Google First Page" is provided by efficient usage of keywords and its associated tactics.

SEO is as important for business as it significantly corresponds to increase in business leads. That's business leads can be termed as fruitful experience after spending lots on SEO. The spending not only involves money but also time.



#### 3.2.1.1 Social Bookmarking:

Social bookmarking is yet another interesting topic which usually everyone follows for marketing their product. The social bookmarking usually deals with the link that user post on social networking sites in a fancy way.

Eg:- If I own a clothing center and I don't have any marketing associate person to handle my work. The only way I will seek is the Social networking sites. I will try to post my collection on my facebook Id and will tell hundred of people to share it.

People will like it, hardly people will comment on that post and lead generation ratio for this type of marketing will be nearly zero as we are using our personal id to promote products which is not desired for Target customers. The fundamental aspect of every marketing tactics to hit a target audience.

Let's not relate this example with Social bookmarking. This was only to give a basic idea about Social marketing Social bookmarking should be started. Talking about Social bookmarking is similar to the bookmarks that are available on our private computers. The social bookmarking sites are efficient to increase traffic for the product and believes in the product growth potential policy.

It usually approaches a unlimited growth potential and sharing of links multiply and reach to

Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC

thousands of target users. Target users can be converted to leads depanding upon the nature of client demand what exactly they need to buy in our product. The various Bookmarking sites include:

- 1. Scoop.it
- 2. Flipboard
- 3. Slashdot
- 4. Redditt
- 5. Tumblr
- 6. Pinterest (Popular website for social bookmarking)

#### **3.2.2** SEM (Search Engine Marketing):

Search engine marketing (SEM) is a marketing plan over internet which corresponds in promoting the websites and optimizing them through different search engines. The visibility of SEM is determined by Search engine results page (SERPs) which is enhanced by digital advertisements and its optimization through various sources.

SEM targets of achieving ultimate range of high ranking when a user tries to search it on different search engines.

The most handy concept with SEM is Search Engine Optimization (SEO) which targets the right audience by rewriting the content available on website.



Figure 3.7: Search engine result page

When it comes to SEM as well as SEO, everyone must start doing their research on finding the

most popular as well as relevant keywords using software such Alfreds, google trends, etc.

We did mentioned only two tools for finding the lead generative keywords because they are quite effective. While using Alfreds you have to worry about paying few bucks, although it worth spending over it. The next one that I have suggested would be the Google trends, which is Freeware tool to determine the most search topics across the globe. It also has an customized feature that allows to compare the popularity of more than two words at a time. The search results into popularity index of that keyword and comparison with other keywords with the regional topography.

Every saturation point need to analysed before you began doing research on keywords. One of such is website saturation. You really need to understand the popularity of website on search engine and the amount of backlinks used by the site.

Flat-rate PPC: The Flat-rate PPC follows a fixed rate model that is agreed for a single click. The amount variation for each click may result in loss of stability in planned budget for digital marketing. The negotiation of rates is possible upon the interest showed by the advertiser to buy that phrases. The greater the amount, more the visibility of advertisement is possible.

#### **3.2.3** SMM (Social Media Marketing):

Social media marketing is the type of digital marketing which involves traffic generation through social networking sites. The rise of digital revolution in 21st century resulting in exploration of various method of connecting people across the globe. The same connectivity has craved a marketing philosophy in every mindset as it signifies the most simplest way to market any product. Only the thing, need to be highlighted is you really have to be concerned about the target audience. Pitching your product who is neither interesting nor they are engrossing for it will result inadequate loss of time. Anything can be easily shared on social networking sites. The post can be image, video, Gif, Advertisement, etc.

Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC



Figure 3.8: Tools for social media marketing [Link: https://www.50marketing.com/social-media-marketing-services/]

Social networking for marketing creates a platform for every marketer to promote their product in a high anticipated way. The people engagement towards your product will corresponds with no. of viewers. Is all the viewers defined as target audience? The viewers will be rectify from the target audience to limited leads based on Funnel theory of marketing. The engagement of people to your post also involves customers which analyses other people comments to determine the review of the product.

#### 3.2.3.1 Facebook Marketing

Facebook is the most popular social networking site. The networking site has observed a tremendous growth over year and year with more than one billion users. It's likely impossible that your relatives, friends or family members are not using Facebook, atleast for india the statements is not contradictory. Every new product has a sure launch on Facebook due its features and versatility of using it. Every marketing agent will prefer promoting the product on Facebook as it's a brand.

Facebook is a low-cost marketing strategy with less than a fraction of cost. The ideal solution for running a small marketing campaign for every medium or small scale businesses with a limited budget plan.

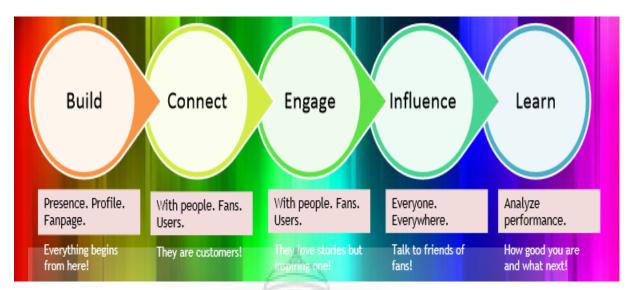
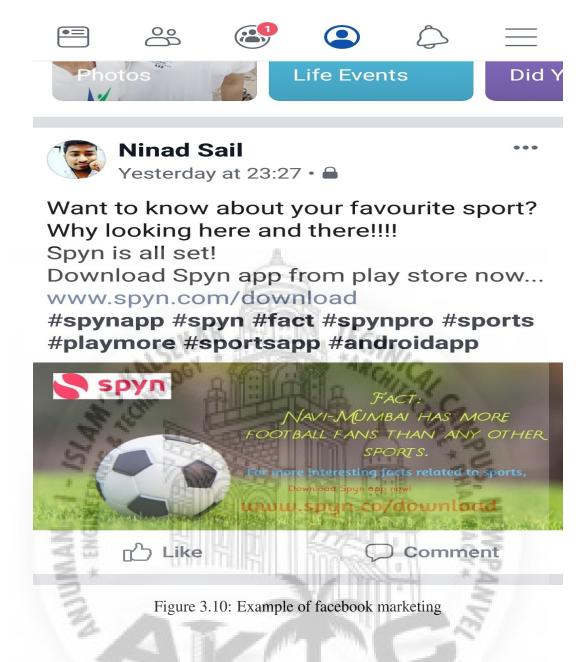


Figure 3.9: Timeline for facebook marketing [Link: https://www.entrepreneur.com/article/250889]

Marketing over Facebook can be achieved by creating a page of that product. The next assigned task would be to find likes to the page. One can use "Promote your Page" option which is readily available which values to few bucks. The easiest to increase the like is hare among the people and make them to share it to their friends too. But again this is quite a lengthy process. Once your page reaches to top insights, you do not need to be worry about likes and popularity of the page. The regular updates and post will show activeness and passion towards your business which again effective in lead generation.

The business page do come with all marketing tactics that need to used wisely as well as patiently. The facebook business page provides an platform to set your business name, entity, address and availability. Hence it became easy tool for the customer to contact you for further queries. Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC



#### **3.2.3.2** Marketing using Twitter:

Alike other social media, 21st century most ignored social networking site for digital marketing is Twitter.

Twitter is the most flexible and quicker option to promote your products, create a brand advocacy among the people who really using this social networking site. If I need to launch and promote my product ie. an ERP system, I will initially start searching for Target audience. Searching target audience become very difficult, if you want to individually pitch your product. That can noted as one of disadvantage of Twitter while using it for digital marketing.

If you are marketing your product on dense scale with well-known ambassador who is famous personality or celebrity with millions of followers on Twitter will easily do well. A single tweet

of promotion by your ambassador promoting your product can gain high lead generation ratio for the product. Well that need plenty of finance and one can't think it at their initial stage. We need to focus on easiest way to pitch our product which can in turns generates lead with maximum Return On Investment (ROI).



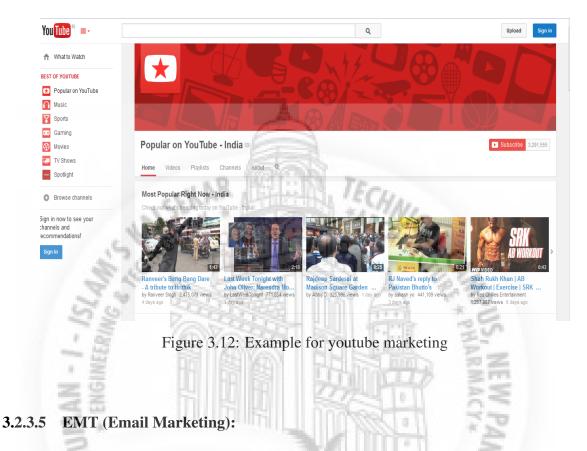
#### 3.2.3.3 Instagram:

Instagram is modern social networking site which started as picture sharing platform has gain immense popularity within the less period of time. With its grow popularity, the developers has launch new features which includes feed, filters, stories, etc. The easily connectivity to Facebook, Tumblr, Foursquare makes one go platform to share your pictures. When marketing is concerned, its again a way effective tool that can reach to target audience. Instagram also sources a platform where people can promote their business and can generate the leads. The communication wit customers can be easily achieved through Direct message

making itself an ideal platform for companies to connect with their current and potential customers. Chapter 3. Skills required for Product Development Framework IR@AIKTC-KRRC

#### **3.2.3.4** YouTube:

YouTube is a videographic Social Networking site and most popular search site on the Internet. Daily millions of users spend their fruitful time watching interesting videos on Youtube as it offers a variety of segment across the globe.



Email marketing is significant marketing technique which is followed most of marketing agencies. The email marketing involves sending a mail to every end user in order generate it into lead. The advertisements including in every email message are mean to create a brand advocacy among the people. The purpose of sending emails refers to enhance the business relationship with peoples and convince them to buy the product.

# **Chapter 4**

# **Working of Product Development**

# Framework

The first thing which comes in the ERP main webpage is the dashboard, where all the statistics of each data is displayed in a chart or graph manner.

# 4.1 Dashboard

# 4.2 Blogs

In our ERP system there are different modules from which blogs is one of them. Blog is essential element in every educational as well as brand website. So the basic idea of blog to provide the users and the employees to express the experience and provide some of the new information to all users and students.

As the blog is available to every login in employee and intern of Hertzsoft Technologies hence they can post their experience whenever they want. This blogs will be displayed on the offical website of Hertzsoft Technologies. The comments of this blogs are stored in database and as well as on the ERP system. In order to post a blog user need to provide blog title, category of blog, file and the content of the blog as a input in the form of webpage as shown in figure.

Hertzsoft	≡		(2)
Abhijit shinde Web developer	G		
<ul> <li>Dashboard</li> <li>E-Mail</li> <li>Blogs &gt;</li> <li>Training &gt;</li> <li>Final Year Projects</li> </ul>	Blog Blog Title Blog Title Categories	File upload	
Certificates	select	* Category Upload Image	Upload
	Fi	gure 4.1: Add Blog Form	
		A	
Hertzsoft	=		(🎒 ···
Abhijit shinde     Web developer	× • • • • • • • • • • • • • • • • • • •	ALL THE ALL DESIGN AND AL	



Once the data is submitted to the database, it will get reflected in the view blogs section as shown below. Here admin has the access to whether delete the blog if its irrevelant. Also there is a option to the members that they can edit there blog if they comimted mistake. So the list of the blogs posted by particular login is displayed in this table.

Hertzsoft	=	(🎒 ···
Abhijit shinde Web developer		Add Blog
<ul> <li>Dashboard</li> <li>E-Mail</li> <li>Blogs &gt;</li> </ul>	Blogs Show 10 * entries	Search
Training	Show 10 * entries Sr * Author * Blogs Title * Category * Date	Search ↑+ Hits ↑+ Manage ↑+
Certificates	1 abhijit shinde New Technology comes in 'Djan Educationaal March 24, 20 Showing 1 to 1 of 1 entries	020 0 🖋 🛱 Previous 1 Next

#### Figure 4.3: List Blog in Table

# 4.3 Training Section

In this section we are holding the data of those batches which are going to attend Hertzsoft technologies. There are 4 sub sections in the this section,

## 4.3.1 Enquiry:

In this section, user can upload his enquiries related to the training section. Data will be taken as a input through a html form where user need to fill name, college, contact details, date (by default today's), enquiry for, and the remark.

Abhijit shinde Web developer	Please Enter Details Below	
Dashboard	Student Name	College
E-Mail	MIMPA	I - INDEX MONTH OF
Blogs >	Contact No.	Date
Training	Enter your phone no.	12-04-2020
Final Year Projects	Enquiry For	Remark
Certificates		
Clients		
a Enquiry	Submit	

Figure 4.4: Add Enquiry Form

Once the data is submitted to the database, this data will automatically reflected on the webpage.

Here admin have the access to check the data which is entered in this section as well as admin can manage it. When we talk about manage means admin can take actions like edit the enquiry or delete the enquiry. The data table is shown in fig below.

Hertzsoft		<b>()</b>
Abhijit shinde Web developer	Add	Enquiry
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	List Of Enquries	
Blogs >	Now 10 * entries Search	
🔄 Training >	Sr ** Student Name ** College Contact No. ** Enquiry For ** Remarks ** Date ** Ma	anage 🔷 🗸
🞓 Final Year Projects	1 nihal AIKTC 9568947989 admissions and enqu Szdxfgchb March 12, 2020 🖋	E
Certificates	nowing 1 to 1 of 1 entries Previous 1	Next
路 Clients		

Figure 4.5: List Enquiry Table

# 4.3.2 Courses:

In this section the courses which are going to be held at Hertzsoft technologies will be stored. While storing the data, requirements will be course name, course duration, image for the course, pdf related to course, course fee and content.

Hertzsoft	=		N.V.	(🎒 ···
Abhijit shinde Web developer	GT		-A	
Dashboard	Add Courses			
E-Mail	Course Name:	Course Durati	ion:	
B Blogs	NAL.	Ala		
Training	MIMPI	1 - IND		
🞓 Final Year Projects	Image upload:	PDF upload:		_
Certificates	Upload Image	Upload Upload Im	nage	Upload
😩 Clients	lcon:	Course Fees:		
🙇 Enquiry				

Figure 4.6: Add Courses Form

Hertzsoft		(2)
<b>Abhijit shinde</b> Web developer	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
Dashboard		
E-Mail		
Blogs >		
🔄 Training >		
Final Year Projects		
Certificates		
온 Clients	Submit	
🙇 Enquiry		

Figure 4.7: Add Courses Form

# 4.3.3 Batches:

In this section there will be multiple batches which will have different courses. These batches will have the separate faculty for teaching. The staff will be an employee or intern of Hertzsoft technologies itself.



Figure 4.8: List Batches Table

Here we can see there are certain icons present towards the right side of the batches. These icons are having their separate functions where the admin can edit, delete, take attendance, enroll the students for specific batch and the last icon is for getting the attendance record of the batch. Now in the enroll students section, the students those are checked while submitting the form

will be enrolled for that specific batch. The students will be filtered out through this section.

Hertzsoft	=			( <b>*</b> )
Abhijit shinde Web developer	List Of Students To B	e Enrolled		
Dashboard	Show 10 r er	ntries		Search
🗳 E-Mail		^	↑ ↓ Student Name	
Blogs > Training >		Enter t	akhbar khan	
🞓 Final Year Projects		Enter t	nihal fakhi	
<ul> <li>Certificates</li> <li>Clients</li> </ul>		Enter t	rajesh kadam	
a Enquiry	Showing 1 to 3 of 3 e	ntries	Ecu.	Previous 1 Next
Keetings	Enrol Students		ARCHIC	

Figure 4.9: Enroll students Form

Once the students are enrolled now whenever the batch will be conducted there will be attendance of each and every student at that time. This attendance will be stored at the database. Admin can access those records as well.

Hertzsoft		=	Array .			5 6	).
Abhijit shinde Web developer	12	G	The second	A MA		1	
Dashboard	T	Batch Attendance					
E-Mail		Batch ID	Date		Start Time	End Time	
B Blogs	>	HB202000001	12-04-2020	041	12:00 PM	12:00 PM	
Training	>		MUMRAI	- 120 ·			

Figure 4.10: Batch Details of Attendance Form

Hertzsoft	=			<b>(</b>
Abhijit shinde Web developer	Students Attendance			
Dashboard	Attendance	ID	Student Names	
🖾 E-Mail				
Blogs >				
🖬 Training >		HS20200001	nihal fakhi	
Final Year Projects		HS20200002	rajesh kadam	
Certificates				
A Clients		HS202000003	akhbar khan	
🙇 Enquiry		A		Submit
I Meetings				

Figure 4.11: Batch Attendance Form

Once the data is submitted, we can see the record of the attendance on a single click. Once we click on that icon we can see the complete record of the attendance of specific batch as shown in figure. Also if admin wants he can delete the attendance record of specific days.



Figure 4.12: Batch Attendance Record

This was all about the data table which is displayed on the batches section of the web page. Now if we click on the specific batch, we are going to see the details of the batch where various data will be displayed related to that batch. The details will look as shown in fig.

Abhijit shinde Web developer	Batch ID: HB20200000	1	Batch Name: batch 1	F	aculty: Saqib Ghatt	e
Dashboard	Start Date: March 12, 2	2020	End Date: March 31, 2020	Т	otal Students: 3	
E-Mail	Total Expected: ₹ 1450	00	Earned: ₹ 3000	В	<b>alance:</b> ₹11500	
🕒 Blogs >						
🛃 Training >	List Of Students Enroll	ed In This Batch				
Final Year Projects	Show 10 r entr	ries			Search	
Certificates	Student Name $\uparrow \downarrow$	Payment Received	1.1.1 Payment Pending 1.1.1.1 $\uparrow^{\downarrow}$	Remove 🔨	Payments 100	Certificate 100 4
A Clients	akhbar khan	₹ 3000	₹1500	Ë	Ø	•
La Enquiry	nihal fakhi	₹0	₹ 5000	ö	ø	•
Meetings	rajesh kadam	₹0	₹ 5000	<b>İ</b>	Ø	•

Figure 4.13: Batch Details

This page will display all the data of batches such as Batch ID, batch name, faculty name, start date of batch, end date of batch, total number of students enrolled in batch, total amount expected from the batch, total amount received from batch, total amount pending from batch. Below all this details there will be list of students enrolled in batch. Here admin can delete the students from the batch if required. From here itself admin can certify a student while clicking on the certificate icon. There are two other columns where the amount received from the student and pending amount is displayed. This payments can be managed by the payment icon. Once we click on that icon, the data table related to that student's payment will be displayed. From there we can see all the payment record of that student till today's date. We can add the payment from this page only by clicking on add payment button. Also we can see the receipt of that payment by clicking on the view button.

Web developer	e				Add Payment
Dashboard	Dumente				
🖬 E-Mail	Payments				
B Blogs	Show 10 v entr	ies			Search
Training >	Receipt ID 🔿	Date 🛧	Amount Received	Payment Met	hod ↑ ↓ Get Record ↑
Final Year Projects	HSR202000001	March 26, 2020	₹1500	Cash	View
Certificates	HSR20200002	March 26, 2020	₹1000	Cash	View
와 Clients	HSR20200003	March 26, 2020	₹500	Cash	View
a Enquiry	Showing 1 to 3 of 3 ent				Previous 1 Nex

#### Figure 4.14: Payment Details

# 4.3.4 Students:

In this section we can add a student in the Hertzsoft by giving name, college, email, contact number, location of the student as a input. Once the data is submitted to the database, the data will be reflected on the webpage as shown in figure. Admin can manage the details such as edit and delete the entries of the students. Also the students appeared while enrolling students in the batch will have these list of students.

Abhijit shinde Web developer		Add Student
Dashboard	List Of Student	
ビ E-Mail	List of orderit	
Blogs >	Show 10 entries	
	Max	11-
Training	Student ID ** Student Names ** Colle	lege/Company Email 🔷 Contact Number 🐄 Mana
	Student ID * Student Names Coll HS202000001 nihal fakhi aikto	IND.
	VI MILLARDAL	c=nihal@gmail.com9568978979
Final Year Projects	HS202000001 nihal fakhi aikto	c= nihal@gmail.com 9568978979

Figure 4.15: Student Table

Abhijit shinde Web developer	Please Enter Details Below	
Dashboard	Student Name	
🖬 E-Mail	Enter the Name of Student	
■ Blogs >	College/Company	Email
🛃 Training >		Enter Your Email Id
Final Year Projects	Contact No.	Location
Certificates	Enter the phone number	Enter the Location
2. Clients	_	
🖧 Enquiry	Submit	
Meetings		

Figure 4.16: Add Student Form

# 4.4 Final year projects

As the Hertzsoft Technologies is not only the leading IT company but also the Training Institute and Coaching Classes where they are providing solutions and final year projects to the Engineering and Diploma Students.

So keeping the records of each and every final year project is essential and important. For that, this section provides all necessary and essential needs as the main moto of ERP system is to track the every record.

This section has form to submit the necessary data to database. In order to add a project to this ERP system user need to provide details like title of project, abstract, cost, based IEEE paper, domain of the project as a input as shown below.

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Abhijit shinde Web developer	Title	
	Enter the Title of Project	
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Abstract	
Blogs >	Enter Abstract Of Project	
🛃 Training >	Cost	Based IEEE Paper
Final Year Projects	Cost Of Project	Enter the Name Of IEEE Papers
🏶 Certificates		
🕰 Clients	Youtube URL(If Available)	Domain
🖧 Enquiry	Enter the URL	Enter the Domain
Meetings	Submit	

Figure 4.17: Add Final Year Project Form

Once the data is submitted, it will reflect on the ERP system in the datatable of the final year projects section as shown in figure.

- 27		
) Dashboard	List Of Final Year Projects	
E-Mail	RI LITT AN	
Blogs	Show 10 entries Search	
Training >	Sr ** Staff ** Title Domain ** Cost ** Manage	
Final Year Projects	1 abhijit shinde Chat Bot using python programming 35000 🖋 🛱	
Certificates	Showing 1 to 1 of 1 entries	Next
Clients		

Also provided a manage section through which final year projects can be edited or deleted as required.

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# 4.5 Clients

Clients is the one section of our ERP system which contain all the record regarding clients as their name, company, Email id, Address, contact number.

ir.aiktclibrary.org

This section contains the add client form and the client list in the table. Where the add client Form contains the all fields which is mention above and by submitting the form all the data will saved in the database.

The list of all clients will displayed in the tabular format from the database as the fields like client name, contact number, Email id, organization name and date of client added and also provided the edit and delete button in the table which allow admin to edit the client details if in future is there any changes in the information of client and also delete the data of particular client.

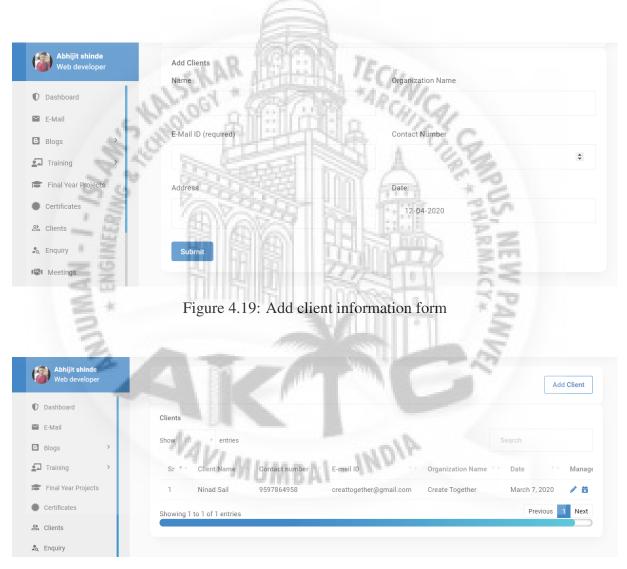


Figure 4.20: Client list table with edit and delete option

# 4.6 Enquiry

As the Hertzsoft Technologies is IT company which provide project based solutions hence, most of the time clients made the enquiry for there projects so there should be the section which contain the record of each and every enquiry made by client.

This user can add an enquiry by providing client name, enquiry date, enquiry title, enquiry details given by client as a input in the form of the webpage and this data are stored in database.



Once the data is submitted, it will reflect on the ERP system in the clients section as shown below in the figure.

D Dashboard	Enquiries	MRAL -	NOIN			Add Enquiry
E-Mail Blogs	10 • entries	TI MINI				
Training >	▶ ↓ Client Name ↑ ↓ Orgnization	Name 🗠 Enquiry Title	↑↓ Enquiry Details ↑↓	Date 🗠 🖓	Mode 🛧 🗸	Manage 🔿
Final Year Projects	Ninad Sail Create Toge	ether fgfgf	dsfsdfsdfsd	March 11, 2020	Active	/ 880
Certificates	ig 1 to 1 of 1 entries				Previous 1	Next
Clients						

Figure 4.22: list of Enquiries

This list of enquiry table also contain icons as buttons which has sub sections in the enquiry

module first two are the edit and delete enquiry buttons. If client approaches for any enquiry regarding the project then client must ask for some estimate bill and this estimate is not full proof but temporary one until client company and Hertzsoft Technologies come agree upon final estimate. Hence, during the negotiation period multiple estimates can be generated for that the estimate generate button is present.

Once the user clicks on the estimate icon, form for adding estimate will be opened where the data is submitted into two different table where the modules and quotation are save in one sections and other information in to the other table. User can add estimate simply by providing duration, maintenance period, date, and description as a input to the form as shown in figure below.



Figure 4.24: Add Estimate Form

After the submission of the form, this information is displayed in the data table and we provide the view button to display the estimate bill. In this estimate we use the data from various tables in database by using the MySQL queries.

Abhijit shinde Web developer	<b>G</b>	Add Estimate
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Estimate	
Blogs >	Show 10 • entries	Search
Training >	Sr ** Client Name ** Orgnization Name ** Enquiry Title	↑↓ Quotation ↑↓
Final Year Projects	1 Ninad Sail Create Together fgfgf	View
Certificates	Showing 1 to 1 of 1 entries	Previous 1 Next
路 Clients		

Figure 4.25: list of Estimates

However the status of this enquiry must be recorded from the start to the end of this project, where how the enquiry is handled, who handled the enquiry and what are the improvement and running status, these all details must be recorded time to time. Hence, one status button is added to record the status regarding the enquiry as shown below in figure.

Abhijit shinde Web developer	6	550	PHA I	Add Status
D Dashboard	Status	LIMA		9
E-Mail				20
Blogs	Show 10 v entries			Search
Training	Sr 🛧 Staff Name 🗠	Status	Next Follow up Date	Date of Status
Final Year Projects	1 abhijit shinde	start development	March 24, 2020	March 24, 2020
Certificates	Showing 1 to 1 of 1 entries			Previous 1 Next
Clients	1.			
	WAL		A10	

Once the estimate is created, we can see the bill of that project estimate easily from the ERP system Only. There is a section in enquiry where we can see the project estimate bill as shown in figure below.

# **PROJECT ESTIMATE**

то	ESTIMATE#	DATE
<b>Create Together</b> 799, tuljabhawanni soc. near RTP highschool Dawadi Rd Dawadi goan dombivali (E) Thane, Maharshtra, India	HE20200001	March 21, 2020
DESCRIPTION OF PROJECT	TEC	
ITEMIZED COSTS		AMOUNT
Website Hosting 1 c	A G	2500 2500 5000 5000 
Thank You for Business! Total	Estimate:	₹7500/-

Note: This estimate is not a contract or a bill. It is our best guess at the total price to complete the work stated above, based upon our initial inspection. If prices change or addition time or workers are required, we will inform you prior to proceeding with work.

Figure 4.27: Estimate Bill

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# 4.7 Meetings

ERP system is made for Hertzsoft Technologies. For the projects to be implemented there should be clear clients demands and these demands cannot be completely fetchable on phone so for that meetings are necessary. Hence, to maintain the records of these meetings this section is available in the ERP system. The form which is filled for the meeting contain the field where the data is coming from the client table in database with the help of MySQL queries and fetch these data to the the table from the database in the form of list table. In order to add a meeting, user need to provide certain details as shown below.

Abhijit shinde	Add Meeting	
Web developer	Client Name	Date:
Dashboard	Select *	12-04-2020
ビ E-Mail	Start Time	End Time
Blogs >	01:00 PM	02:00 PM
🔄 Training >	Minutes	
Final Year Projects	Windtes	
Certificates		
路 Clients		
La Enquiry	A	
Meetings	Submit	

Figure 4.28: Add Meeting form

Once the form is submitted, the data will be refected on the webpage in the meetings section as shown in the figure below.

Abhijit shinde Web developer	RI SISI	HI REAL	Add Meeting
) Dashboard	Meetings	1222-101	W
E-Mail		I DARKER TO D	5.0
Blogs >	) entries		Search
Training >	Organization Name Client Name Create Together Ninad Sail	Date Start Time End Ti March 24, 2020 1 p.m. 2 p.m.	2.4
Certificates	I to 1 of 1 entries		Previous 1 Next
Clients			
& Clients	Copyright © 2020 Hertzsoft. All rights reserved	d.	

# 4.8 Project management

As Hertzsoft having so many project and system records all the information regarding the industrial project. It is essential to maintain these all records and these are maintained in thi section. It has the separate tables of project managemet.

In this section whatever the project we have stored in the table and also the records regarding the project, all these information is stored in the database by using the form and all this data where

the client details like name and the staff details from the human resources module is fetched to the add project form by using the MySQL queries and the Django zinger format. The form for adding a project is shown below.

Abhijit shinde Web developer	Add Project Project Title :			
Dashboard				
🖾 E-Mail				
Blogs >	Project Type :	client :	Project Manager :	
Training >		Select	▼ Select	Ŧ
Final Year Projects	Team Leader :	Order Date :	Delivery Date :	
Certificates	Select	12-04-2020	dd-mm-yyyy	
<b>路</b> Clients	- 8 A Mr.	ELLIN. TErn		
	Figure 4	4.30: Add Project form	11-	
4	J. 00 - 18	一日/ 二頭管 二 「44	SA,	
5		11118 "	C.C.	
Abhijit shinde		- 165 - 160 P III III - 1	Ω 🔀 🖻 Source	
Web developer	B I S II <sub>x</sub> ⊨ :	E	- 2 - 20	
Dashboard	2.55		1 26	
🖬 E-Mail	(ADW200		E	
B Blogs			A RE	
🗊 Training		8 <u>59</u> P	42 SE	
Final Year Projects			4 52	
Certificates	maintentill		1 22	
路 Clients	Total Cost :	Dem	o Link :	
a Enquiry	Allen - mark		5	
Keetings				
	Submit	1		
	Figure 4	4.31: Add Project form		
	Na.			
	NAVIMU	MBAL - INDIA		

Once the project is added, we can see it on the project management section in the form of datatable.

Abhijit shinde Web developer	Add Project
Dashboard	Projects
🖬 E-Mail	10 • entries Search
Blogs >	To Clinica Scale
🛃 Training >	* +     Project Title     * +     Project Type     * +     Order Date     * +     Deadline     * +
Final Year Projects	sudhanshu ka project pata nahi abhijit shinde March 7, 2020 Aug. 2, 2020 🖋 🗟 🗮 🚍
Certificates	ng 1 to 1 of 1 entries Previous 1 Next
2. Clients	

Figure 4.32: List of Projects

# 4.8.1 Agreement :

All this data is stored in the database where essential data is fetch into the table and the agreement regarding this project is generated by putting the simple information into the form according to the client specification. However the data fetched into the agreement is based on the client information stored in the client module and all his address, contact, Email, organization name this all details are fetched accordingly.

NGI NGI		272	WAN
Abhijit shinde Web developer	G	JUNK!	PA PA
Dashboard	Add Agreement		12
🖬 E-Mail	Client Name :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E Blogs	Client     Orgnization     Type	Ninad Sail	100
Training			
Final Year Projects	Project Cost :	Milestones/Modules :	Maintenance Period :
Certificates	280000	Alm	
S. Clients	WIMINA	AL - INDI	
a Enquiry	Submit	DAI	
(De brock)			

Figure 4.33: Add Agreement Form

## **4.8.2** Invoice :

In the invoice section the form contain the module and quotation feilds and there is plus icon which increases these fields according to the number of modules we use the JavaScript and jQuery to complete this operation. Also we generate the custom ID for the invoice which is unique to particular invoice.

Hertzsoft		(2)
Abhijit shinde Web developer	G	
Dashboard	Add Invoice Details	
🖬 E-Mail	Date : 12-04-2020	
Blogs >	12-04-2020	
🖬 Training >	Module : Add Module Quotation : Add Quotation +	
Final Year Projects		
Certificates	Submit	
🕰 Clients		

Figure 4.34: Add invoice form

The data that form contains is stored in the database where the current date is automatically stored in database according to the data present in the database. We provide the view button to view the final estimate invoice. This invoice again connected with the other tables from different modules like client table and estimate table and there is one entry that must be present that's why we programmed it like if we generate new invoice then the previous record is deleted immediately and the latest entry is shown in the table. In invoice there are some calculation is present like addition of all quotations which is done by the time through view function called.

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# Invoice

BILL TO	INVOICE	DATE
Ninad Sail	HIN202000001	March 7, 2020
799, tuljabhawanni soc. near RTP highschool Dawadi Rd Dawadi goan		

799, tuljabhawanni soc. near RTP highschool Dawadi Rd Dawadi goan dombivali (E) Thane, Maharshtra, India Email:creattogether@gmail.com

ITEMIZED COSTS	QTY	UNIT PRICE	AMOUNT
Website Hosting	(1)	12000	12000
	A.		
CEKAR	ALL IN	TECHA	
4A1.06Y	457.1	*ARCH Ca.	
Thank You for Business!	Total Estimat	e CC	₹12000/-
	gure 4.35: Invoice	e format	NoUS!
8.3 Receipt :			NEW P

This section is for receipt generation where we provide the data that is present like the invoice number which is in the invoice section. This receipt is the proof of payment and this all information required like payment by cash, cheque, account transfer, net banking , invoice number, amount, date and then the information is stored in the database once the form is submitted.

Abhijit shinde	IUM I'v	NBAI - INDI	
Web developer	Add Receipt Details		
	Invoice Number :	Amount Paid :	Date :
🗘 Dashboard	HIN20200001		12-04-2020
🖬 E-Mail			
B Blogs	Payment Method		
Training	O Cheque		
	🔘 Cash		
Final Year Projects	Account Transfer		
Certificates	O Net Banking		

Figure 4.36: Add receipt form

When the data is stored in the database after that data is fetched in the table and we provide the view button to open the receipt for print. There is some calculations like some amount is paid from total and balance amount must be shown but in next time when user pays more amount then also the previous calculation must be carried out. This calculation is carried out by the time where the view button is pressed.

Ð	Hertzsof	ft	Δ.	est 8557 2827 57 www.iwstaseft.com
			Parmant Pacaint	
			Payment Receipt	
Receipt	ID: HPR20200000	12.1	A PUT THE TAK	CHN,
Custom	ner Name: Ninad	Sail	P DETAIL	Company: Create Together
Project	Date: March 7, 20	020	Project Code: HP202000001 Invoice Number: HIN202000001	
Amoun	t Collected: 3450	00/- (Forty Five	Thousand only)	Payment By: Account Transfer
	× .	Y 8	A CAREGORIA NO.	人名克
	Account	Details	26.0 Fight	*2
Sr.	Date	Paid	Arrears	100 200
1	March 7, 2020	₹ 45000/-	-33000.0/-	
	AN			SAQIB GHATTE Director
	2+			55 1028
	2		3.4	5
	2	-	Arren and	2
	2		M	2

Figure 4.37: Receipt Format

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## 4.8.4 Timeline :

This is record or we can say timely report of the project from the start of the project to the end of the project. In this part where the team leader divide the project in the modules, that modules must be completed as planned. In the form of the timeline all the details like module, start date, end date, description and staff assigned are present and this form is also having a repeater button at the end of this form. The plus button add this fields again with the help of JavaScript and jQuery.

Hertzsoft	≡	(🎒 ···
Abhijit shinde Web developer	Module : Add Module	
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Description : Add Description	
Blogs >	Staff Assigned : Select	v
<ul> <li>Training</li> <li>Final Year Projects</li> </ul>	Expected Start Date : 12-04-2020	
<ul> <li>Certificates</li> <li>Clients</li> </ul>	Expected End Date : dd-mm-yyyy	
🖧 Enquiry	A	
Meetings	Submit	+

Figure 4.38: Add timeline form

This all the data is then stored in the database and displayed on the table. By the time of submission the status of the project is pending as in database we use the integer value to store by default the zero will be stored then by the time of displaying the data in the table.



Figure 4.39: List of Timelines

Currently in database zero is stored it will represent the pending badge with the red color and when the work is started then just by clicking badge one time it changes the color to yellow and indicates that the work is started and also the start date is changed to the today's date and one more time when we click the badge it indicate complete with green color and the end date will

change to today's date. Also we provide the delete button which deletes the whole entry.

# 4.9 Human Resource

This is one of the most important section in every ERP system. The main task of a HR is to hire the employees, interns which plays an important role in the success of the organization. This section holds 6 subsections,

#### 4.9.1 Employee :

From this sub section, admin can add an employee to his company by taking some information such as name, passport size photo, email id, password for login of system, contact number, DOB, date of joining, designation, department, their marksheet scanned Images, UID scanned image, UID number, PAN Number, PAN scanned image and salary which is going to be provided to the employee. Form is shown below.

			1 8 5
Hertzsoft	=		1 5 9
Abhijit shinde Web developer	10-		5
-	G	a series of	
Dashboard	Please Enter Details Below		
E-Mail	Employee Name	Upload Pa	assport Size Photo
Blogs >	Enter the Name of Employee	_ Upload	d Image Upload
] Training >	AVI	9/041	
Final Year Projects	Email	Password	
Certificates	Enter your Email	Enter t	the password
			Date Of Jaining
Clients	Contact No.	DOB	Date Of Joining

Figure 4.40: Add Employee Form

Hertzsoft	=	( <b>*</b> )
Abhijit shinde Web developer	Designation	Department
<ul> <li>Dashboard</li> <li>E-Mail</li> <li>Blogs &gt;</li> </ul>	Marksheet Scan & LC Upload Image Upload	UID Scan Image Upload Upload Image Upload
Final Year Projects	UID No.	PAN ID
<ul> <li>Certificates</li> <li>온 Clients</li> </ul>	PAN Scan Image Upload Upload Image Upload	Salary
🔩 Enquiry	Submit	

Figure 4.41: Add Employee Form

Once the data is submitted then the data related to the employee will be visible to the page in employee section. Also admin has an access to manage those employees whether to make changes in the detail of the employee or to remove employee from the enterprise by clicking on the delete icon as shown below.

- I	日常會日日		RMA
Hertzsoft	- DIN		65 🐵
Abhijit shinde Web developer	3	411	Add Employee
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Employee Table		R
Blogs	10 entries		
🔄 Training >	ID Employee Names ** Email	↑↓ Contact ↑↓ Designation	☆ ↓ Working Status ↑ ↓ Manage
Final Year Projects	HR202000001 Saqib Ghatte saqib@gm	ail.com 9879788544 CEO	Working 🥒 😒
Certificates	"4VI MUMPAL	INDI	
A Clients	HR202000002 manish ninad@gm	ail.com 8975454555 afhal	Working 💉 🖻
🖧 Enquiry	1 to 2 of 2 entries		Previous 1 Next

Figure 4.42: List of Employees

## 4.9.2 Intern

From this sub section, admin can add an intern to his company by taking some information such as name, passport size photo, email id, password for login of system, contact number,

DOB, date of joining, designation, department, their marksheet scanned Images, UID scanned image, UID number, PAN Number, PAN scanned image and stipend which is going to be provided to the intern. Form is shown below.

Hertzsoft	≡		(2) ···
Abhijit shinde Web developer	Please Enter Details Below	Upload Passport Size Photo	
Dashboard	Enter the Name of Intern	Upload Image	Upload
E-Mail	Email	Password	
Blogs >	Enter your Email	Enter the password	
🔄 Training >	and and a		
<ul> <li>Final Year Projects</li> <li>Certificates</li> </ul>	Qualification	TECH.	
용. Clients	DOB	Date Of Joining Contact	
a Enquiry	dd-mm-yyyy	12-04-2020	
Keetings	So HIT	1 22	
- ISLA	Figure 4.43:	Add Intern Form	
Hertzsoft	= 131 (S1)(S)		<b>(</b>
Abhijit shinde Web developer	Designation	Department	
Dashboard	Marksheet Scan & LC	UID Scan Image Upload	
🖻 E-Mail	Upload Image	Upload Upload Image	Upload
Blogs		11 - S	
🛃 Training	UID No.	PAN ID	
😰 Final Year Projects			
Certificates	PAN Scan Image Upload	Stipend	
ස. Clients	Upload Image	Upload	
a Enquiry	MIIAAD	AL - TAUL	
Meetings	Submit	A1	

Figure 4.44: Add Intern Form

Once the data is submitted then the data related to the intern will be visible to the page in intern section. Also admin has an access to manage those interns whether to make changes in the detail of the intern or to remove intern from the enterprise by clicking on the delete icon as shown below.

Hertzsoft	=						
Abhijit shinde Web developer	Interns Ta	able					
Dashboard	Show 1	0 • entries				Search	
≤ E-Mail	Sr ↑↓	ID $\uparrow \downarrow$	Intern Names $\uparrow \downarrow$	Contact Number $\uparrow \downarrow$	Qualification $\uparrow \downarrow$	Working Status $\uparrow \downarrow$	Manag
Blogs	1	HI202000001	abhijit shinde	8979599594	BE-Extc	Working	1
Training >	2	HI20200002	Farhan	9594897959	BE-Extc	Not Working	1
<ul> <li>Final Year Projects</li> <li>Certificates</li> </ul>	3	HI20200003	sudhanshu singh	957894685	BE-Extc	Working	Ø Ö
🖞 Clients	Showing	1 to 3 of 3 entries				Previous 1	Next
a Enquiry			A				

#### Figure 4.45: List of Interns

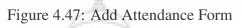
# 4.9.3 Attendance

This section holds the attendance record of the staff that are associated to the company. Here the attendance will be stored in the form of in-time and the out-time of the staff. The attendance record having the record of attendance of each day is shown in figure below.

Hertzsoft				- -
Abhijit shinde Web developer	Date	Start Time	End Time	
Dashboard	12-04-2020	11:00 AM	07:00 PM	1
🖻 E-Mail				
Blogs >	Attendance Table			
Training >	Show 10 entries		Sear	
Final Year Projects	AVIAN	0411	16-	
Certificates	✓ ↑ ↓ Staff iD	1* Staff Members **	In Time ↑ ↓	Out Time 🔷 🗸
A Clients				
la Enquiry	HR202000001	Saqib Ghatte	11:00 AM	07:00 PM

Figure 4.46: Add Attendance Form

Hertzsoft	=				( <b>a</b> )
Abhijit shinde Web developer		HR202000002	manish	11:00 AM	07:00 PM
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>		HI20200001	abhijit shinde	11:00 AM	07:00 PM
Blogs >					
Final Year Projects		HI202000003	sudhanshu singh	11:00 AM	07:00 PM Previous 1 Next
Certificates	Showing 1 to Submit	4 of 4 entries			Frevious 1 Next
😤 Clients					



# 4.9.4 Leave Management

If any staff from the company wants a leave for specific amount of days, then they can raise a request to the leader by filling some data such as their name, leave type, leave date from, leave date till and reason for leave as a input to the form as shown below.



Figure 4.48: Add Leave

Once the form is submitted to the database, an request will be raised and the data which staff has provided for the leave will be displayed in the form of data table on the webpage as shown below.

Hertzsoft	=		(🎒 -
Abhijit shinde Web developer			Add Leave
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	List Of Leaves		
Blogs >	Show 10 * entries	Search	
Training	Sr 💠 Staff Name 🐤 Leave Date From 🔶 Leave Date Till 🐤	▶ Reason ↑ ↓	Manage 🗠 🖓
Final Year Projects	1 abhijit shinde March 13, 2020 March 14, 2020	pata nahi bhai maan	1
Certificates	2 Saqib Ghatte March 12, 2020 March 14, 2020	hai kuch to bhi	/ 8
2 Clients	Showing 1 to 2 of 2 entries	Pre	vious 1 Next
a Enquiry	A		

#### Figure 4.49: List of Leaves

# 4.9.5 Feedback

From this section, staff can provide their feedback regarding any topic that is undergoing. This is the important section for the staff as the interaction and understandings becomes stronger with the leaders with the help of feed backs.

Hertzsoft		
Abhijit shinde Web developer	Please Provide your Anonymous Feedback: (Good place for criticism, your personal details are no	ot s <b>tored</b> )
Dashboard		
E-Mail		
B Blogs >		
Training >	Submit Cancel	
Final Year Projects	MUMBAL - 180	

Figure 4.50: Add Feedback

## 4.9.6 Appreciation

This section is accessible from the admin only as if the admin wants to appreciate any staff related to work or any reason, admin can do it with the help of this section. Here admin need to provide the name of the staff, date, type of appreciation and content as a input in the form.

Once the data is submitted, a certificate will be generated for the appreciation of staff.

Hertzsoft	=		(2)
Abhijit shinde Web developer	Please Enter Details Below		
	To Employee/	Intern Name	
Dashboard	MR. • Enter t	ne Name of Intern/Employee	
E-Mail	Date	Туре	
E Blogs >	12-04-2020	Internship	
Training	12 04 2020	interiorip	
-	Context		
Final Year Projects	CONTEXT		
Certificates	REFE		
A Clients	AR RET	The The	
	Submit	HALL SCHAL	
a Enquiry	A CAL MENT	The April	

Figure 4.51: Add appreciation Form

# 4.10 Finance management

The financial management is very important in any organization because every organization has an financial management stream which handle the financial need and financial records of sales and expenses. From the profit point of view is most important section in the company. Hence, our ERP system has an section called finance management which contains the records of Donation, Salary, Expenditure, Contract Pay and Reports.

# 4.10.1 Donations :

This section contain the donations to the Hertzsoft Technologies. In this section the form contains Donor name | Amount | Reason for Donation | Date and all this data will store in the database.

- INDIA

Hertzsoft	=	(2)
Abhijit shinde Web developer	G	
Dashboard	Please Enter Details Below	
ビ E-Mail	Donor Name	Reason
B Blogs >	Enter the name of the donor	Enter Your Reason For Donation
🖬 Training >		
🞓 Final Year Projects	Amount	Date:
Certificates		12-04-2020 × 🗘 🔻
2 Clients	Save Cancel	
🖧 Enquiry		

Figure 4.52: Add Donation Form

These data will be displayed in the table from the database which contains donor name, reason for donation, amount, date and time of donation. And finally the delete button to delete the entry.

I - IS		
Hertzsoft	10 (3)(3) 1	
Abhijit shinde Web developer	n k l s	Add Donation
Dashboard	Donations	2 1.1
🖬 E-Mail		SILLIS
B Blogs	Show 10 entries	Searon
Training	Sr 🔷 Donor Name 🔷 Reas	son 🞌 Amount Date & Time 🞌 Manage 🎌
Final Year Projects	1 abhijit j shinde pata	nahi ₹ 1000 March 18, 2020 📩
Certificates	Showing 1 to 1 of 1 entries	Previous 1 Next
2. Clients	MUMBAI	. IND.

Figure 4.53: List of Donations

## 4.10.2 Expenditure :

In any organization there is record of all the expense. This record is mandatory to maintain the balance of company to become financially strong.

In our ERP system there is section to maintain all the expenses which contain the form to fill the all details regarding the Expense who made the expense, date, time, amount of expense, Reason

for expense. This all data will be send to the server and this all details are save in to the database.

Hertzsoft	≡		<b>(</b>
Abhijit shinde Web developer	G		
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Please Enter Details Below Reason For Expense		
Blogs >	Enter Your Reason For Expense		
🛃 Training >	Date Of Expense	Cost	
😰 Final Year Projects	12-04-2020		
Certificates	Staff Associated		
名 Clients	Select		Ŧ
🙇 Enquiry		70	
Keetings	Submit	L ECHAL	
AMS.	Figure 4.54: Add	Expense Form	

This data is store in database will displayed in the table in the form of list. Also there is a delete button to delete the particular entry.

	B B B			RMA	
Hertzsoft	1155		0	VP/	( <b>)</b>
Abhijit shinde Web developer				NIN	Add Expense
Dashboard     E-Mail	Expenditures				
■ Blogs >	Show 10 v entries			Search	
🛃 Training >	Sr 🕎 Staff Name	Reason	Date ^	↓ Cost ↑↓	Manage ^+
Final Year Projects	1 sudhanshu singh	hai kuch to bhi	March 18, 2020	₹1211	芭
Certificates	Showing 1 to 1 of 1 entries			Prev	ious 1 Next
2 Clients					

Figure 4.55: List of Expenses

# 4.10.3 Salary :

Organization must maintain the all record regarding the employee salary. In this section the salary slip generation is done and the record of each and every slip is maintained. This section

have the salary generation form which has the fields like name of salary received, Amount, month of salary, payment by or salary by check boxes. This all data is submitted in to the database.

Hertzsoft	=	🍘 ···
Abhijit shinde Web developer	Please Enter Details Below Staff Associated	Salary Month
Dashboard	Select *	,
🖬 E-Mail	Date	Amount
🗈 Blogs >	12-04-2020	
🛃 Training >	ALC: N	
😰 Final Year Projects	Payment by	
Certificates	O Cheque	CHA.
온 Clients	Cash Account Transfer	RGJ.Ca.
a Enquiry	O Net Banking	The second second
Meetings	Submit	A CEL
151 151	Figure 4.56: Generate Sal	ary Slip

These data from the database is displayed in the table as an entry. We provide the view button to generate the slip which shows details regarding the staff who receiving the salary and the all his details like number of days he worked, leaves, basic salary, total salary, travelling allowance, special allowance, PF, income tax, prof tax all these details is calculated on the function on which the view button is click.

Hertzsof	t	-	eri i	MUMBA	1 - 14	10.		( <b>*</b> )
Abhijit shinde Web developer			Salary					
Dashboard			Show 10				Search	
ビ E-Mail			Sr ↑↓	Staff Name 🔷 🔨	Amount 🗠 🗸	Date 🗠 🗸	Payment Through 🗠 4	Manage
Blogs	>		1	abhijit shinde	₹1111	March 17, 2020	Cash	View
Training	>		2	sudhanshu singh	₹1000	March 17, 2020	Account Transfer	View
Final Year Projects			3	Saqib Ghatte	₹14500	March 12, 2020	Cash	View
Certificates			4	Saqib Ghatte	₹15000	March 17, 2020	Cash	View
2. Clients			Showing 1	to 4 of 4 entries			Previous	1 Next

Figure 4.57: List of Salary Slips

The salary slip format is shown below.

#### HERTZSOFT TECHNOLOGIES PVT. LTD.

Room No. 14 Ground Floor, 15-B Siddika Manzil, Opp. Bombay Hotel, Nishanpada Road, Umerkhadi Cross Lane, Dongri, Mumbai: 400 009

#### Payslip for the month of March 2020

Name: Sudhanshu singh					
Designation: Web developer	Joining Date: Dec. 16, 1998	Duration: 01-Mar-2020 to 01-Apr-2020			
Total Days: <u>11</u>	No of Days Worked: 10	Location: Mumbai			

Full     Actual       BASIC     909.1       DA     -	1000	Actual
	1000	
DA -		
	- PF	0
VARIABLE ALLOWANCE -	INCOME TAX	0
C.L.A.	-	0
H.R.A.	PROF TAX	0
TA.	LEAVES DEDUCTION	90.91
SPECIAL ALLOWANCE	. IBCU.	
Gross Salary Rs:- 909.1	1000 Total Deduction Rs.: -	90.91

151-0	sudhanshu singh Employee I SAY RECEIVED		SAQIB GHATTE Director
- I	ĥ	Figure 4.58: Salary Slip Format	ARM
AAN BNG	ñ		ACP

### 4.10.4 Contract pay :

In contract pay there are the form which contain the staff name, task, amount, date and payment by this all data is store in to the database.

Retrieval of this data is done by the SQL query and this data is displayed in the table to the website also we provide the view button to display the contract pay slip and to take print out of it. On the view button click function is called in that function the calculation of the data like paid amount and arrears id to be done and at the final document is displayed.

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Hertzsoft	=					(🎒 ·
Abhijit shinde Web developer	Please Enter Details Below					
	Staff Name			Tasks		
Dashboard	Select		Ŧ			
🖬 E-Mail						
Blogs >	Amount			Date		
Training	Enter the amount			12-04-2020		
	Payment by					
Final Year Projects						
Certificates	Cheque Cash					
路 Clients	Account Transfer					
🕰 Enquiry	Net Banking	A				
SI Meetings	-	-				
	Submit					
Abhijit shinde Web developer	Han all		2	A Cres	2 m	Add
1.10	142.0 Yest	胡川路		28	20	Aud
D Dashboard	Contract Pay		1	111	26	
E-Mail	60000	2611 193		1	24	
Blogs	Show 10 entries		11-18	nin -	Search	
Training	Sr ↑ ✓ Staff name	Task ID	Amount	Date	Payment	Manage 🛧 🗸
Final Year Projects	1 abhijit shinde	something	11	March 18, 2020	Cash	View
Certificates	2 None	something	500	March 7, 2020	Cash	View
S. Clients	3 None		555555	March 7, 2020	Net Banking	View
5		contenting				
e Enguiry	Showing 1 to 3 of 3 entries				Pr	evious 1 Next
Enquiry	Showing 1 to 3 of 3 entries				1. The second	

### 4.10.5 Reports :

In this section, we hold all the records related to the payment that was incoming as well as outgoing for the company. Since from our company many bills get issued such as Invoice, Donations, Expense, Fee Receipt, Payment Receipt, Contract Pay and Salary. Now if we want to filter all the records related to individual receipts, this section is really useful for it.

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Hertzsoft	≡ ©
Abhijit shinde Web developer	Reports
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Start Date     End Date       12-04-2020     dd-mm-yyyy
Blogs > Training >	Fee       Payment       Salary       Contract       Expense       Donations       Invoice         Receipt       Receipt       Pay
<ul><li>Final Year Projects</li><li>Certificates</li></ul>	Submit

Figure 4.61: Form to View Reports

From above fig, we can see there are two input fields i.e. start date, and end date. Now lets say we need to find all the records between particular dates related to Invoice. For that, all we have to do is that enter the start date, end date and just click the checkbox labelled Invoice.

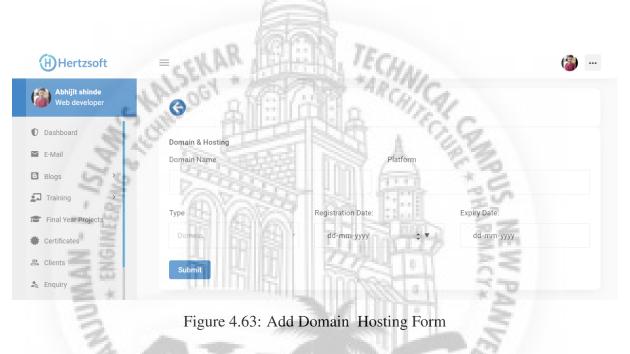


Once the form is submitted, then on the same page we will have all the payment record related to invoice. With the help of this, we can see all the payment done towards the company and through the company.

## 4.11 Domain Hosting

As the Hertzsoft provides web solutions hence for every project they provide domain and the hosting of the website but this is not free and this services are time limited hence all records is to be maintain correctly related to the due dates of domain and hosting

In our ERP system there is the section to record these details and form is use to add the data in the database which has the fields domain name, platform, type whether it is for domain or hosting, registration date and expiry date. All this data is stored in the database in the form of table.



The retrieval of data from table in the database is done by the SQL query and this data is displayed in the table on the UI where the we put the remainder button to make sure the client received the message and email regarding the expiry date of services. Chapter 4. Working of Product Development Framework IR@AIKTC-KRRC

Hertzsoft	=					🍘 ···
Abhijit shinde Web developer						Add
<ul> <li>Dashboard</li> <li>E-Mail</li> </ul>	Domain & Hosting Info					_
Blogs >	10 • entries			Search		
🛃 Training >	$\uparrow \downarrow$ Domain Name $\uparrow \downarrow$	Platform $\uparrow \downarrow$ Type $\uparrow \downarrow$	Registration Date $\uparrow \downarrow$	Expiry Date $\uparrow \downarrow$	Manage 🔨 4	Reminder
Final Year Projects	hertzsoft 1	AWS Hosting	March 20, 2020	April 1, 2020	Ø 🛱	٠
Certificates	ing 1 to 1 of 1 entries				Previous 1	Next
名 Clients						

### Figure 4.64: List of Domain Hosting

## 4.12 Marketing

Every organization has strategies to increase their business hence to maintain the records of every action made towards the successes and loss is to be identify.

In our ERP system there is section to maintain records of every marketing done by particular staff we consist of the form and table to maintain details where form has fields like associated person to marketing, type of marketing, expense for marketing, outreach number, details regarding the marketing and date of marketing all this data will save to the table in the database.

Hertzsoft	ATZP		@
Abhijit shinde Web developer	Add Marketing Status Associated Person :	Marketing Type :	
Dashboard	Select	Alain	
ビ E-Mail	Expense :	Outreach Number :	
Blogs >	Lipense .	Guteach Number .	
🔄 Training >			
😰 Final Year Projects	Details :		Date :
Certificates			12-04-2020
名. Clients			
🙇 Enquiry	Submit		
Meetings			



The retrieval of this data from table in the database is done by the Query of SQL and this data

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is show in the table on the UI. Where we are provide the edit details and also delete the records buttons

Hertzsoft		( <b>b</b> )
Abhijit shinde Web developer		Add
Dashboard		
ビ E-Mail	Marketing Status	
E Blogs	10 • entries Search	
🛃 Training >	Contract Number Contract Numbe	Manage 🗠 🖗
Final Year Projects	Saqib Ghatte social facebook ₹200 120345 March 25,2020	e 🕺
Certificates	Ig 1 to 1 of 1 entries	Next
😩 Clients		
🖧 Enquiry	AR PERION TRees	

Figure 4.66: List of Marketing Entries

### 4.13 Research and Development

Every organization who is in the development sectors has the research and development department and all the records regarding each and every research and development is to be recorded. Hence we have one section to record these data is RD.

This section consist of form and the table. The form contains the fields like employee name, details, date and expense all this data is save to the table in the database. The data displayed in the table is done by the SQL query.

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Hertzsoft	=	(🎒 ···
Abhijit shinde Web developer	<b>G</b>	
Dashboard	Add Research & Development Status	
🖼 E-Mail	Employee Name	Details
B Blogs	Select	•
🖬 Training >		
Final Year Projects	Expense	Date:
Certificates		12-04-2020
😩 Clients	_	
🙇 Enquiry	Submit	
Keetings		
	Figure 4.67: Add Research I	Development Form
Hertzsoft	ALSENAR MINION	TECHNICAL 3 -
Dashboard	Research & Development	Add
🖬 E-Mail	Res 233274	100
Blogs	Show 10 entries	Search
🛃 Training	Sr 🔶 Employee Name Details	Expense Date Manage **
Final Year Projects	1 Saqib Ghatte developing new s	
Certificates	Showing 1 to 1 of 1 entries	Previous 1 Next
A Clients		A LAND
La Enquiry	Figure 4.68: List of Research I	Development Entries
	NAVI MUMPAL -	INDIA

# **Chapter 5**

# **Marketing Plan for an ERP system**

The landscape of Software-as-a-service industry saw drastic changes over years viz. origin of the 21st century. The boom of upgrading Technologies an industrial revolution in the software industry grew competitors across the globe. The software revolution emphasizes only on depth of growing skills and logic among the experts but not the complete model. Launching a SAAS product was an easy task but a complete protocol/planning of selling that service was never revised. The case that occurred with SAAS product such as ERP system was similar. The entrepreneurial hubs of developing ERP's were set up on the verge of few protem clients. But the growing competition and poor implication of an ERP system resulted in shut down of entrepreneurial companies. A complete model of implementation and marketing strategies to increase brand awareness for an ERP system is vital.

The entrepreneurs who jump into this industry of developing a SAAS product, only focus on its implementation stage. Most of the entrepreneurs startup company employees are with technical capabilities. Hence, it became very important for the company to hire marketing executives for creating brand awareness about their company to stand still in the competitive market.

The company has to plan accordingly, the pre-marketing and post-marketing strategies for branding before they end up getting not a single client.

### 5.1 Marketing for Brand advocacy

The marketing is very important for the startup company whose maximum source of profit comes through selling ERP. The marketing for an ERP startup company mainly focus on creating brand advocacy of the product. Making the company a brand is the only target.

Marketing focused on delivering value to the consumers and increasing the customer satisfaction rate through marketing for profit and interest groups. [16] The success rate of marketing corresponds to the different strategies planned.

## 5.2 Marketing strategies for an ERP system

Traditional marketing and Digital marketing are modern means of marketing techniques primarily used while marketing strategies are concerned. Generally, a proper SWOT analysis is prepared with the primary data available. The data is usually fetched through research including the competitor's information. The marketing strategy is also very important because it helps the vendor to focus only on the target audience. SWOT analysis answers the few questions which are subordinate to the product-ERP. What is the current market position for our developed ERP? [11] How it strongly holds the market? What would be its estimated ranking among the other competitors?

Marketing strategies also focus on what actually is served to the consumers and what they need? It corresponds towards the dominance of their preference from the product. The target audience, Customer relationships Sales processes are the Key indicators for marketing.[2] The ERP should be implemented on the basis of the preference, priority pricing of the consumers. The preference, priority pricing are the few factors which affect the overall performance in the market.

### **5.2.1** Factors affecting the marketing strategies

The market strategy is summarized with product development parameters. They are

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1. Target Audience Market specific target to be achieved. 2. Cost Analysis on competitors profit margin selling price. 3. Marketing agents Marketing professionals to sell products. 4. Production limit/cost Depends upon the workforce and advance Technologies 5. Upgradation Specific, full dependency on time. 6. Ranking Market position to be achieved.

### 5.3 Branding through Traditional Marketing

Traditional marketing is nothing, but the conventional mode of marketing using offline marketing channels such as cold calls, Tele-calling, pamphlets, posters, etc. to reach out the semitargeted audience. It is carried out for a specific audience throughout from generating campaign ideas up to selling a product or a service. Sometimes it is often referred to as the best suitable type of marketing as the direct interaction takes place. The client can get convinced to buy a SAAS such as ERP with intervention of Human marketing skills such as spoken words, pitch presentation and practical demonstration.

The service from the provider should speak the best. Happy clients spreading the word can easily help to generate consumers through making them aware that their connection is using our own product.

## 5.4 Branding through Social-media Marketing

Social media marketing is the type of digital marketing which involves traffic generation through social networking sites. Social networking sites for marketing creates a platform for every marketer to promote any SAAS product in a highly anticipated way. The people's engagement towards the product will correspond with no. of viewers. Are all the viewers defined as target audience? The viewers will be rectified from the target audience to limited leads based on Funnel theory of marketing.

The engagement of people to your post also involves customers which analyses other people's comments to determine the review of the product.

Chapter 5. Marketing Plan for an ERP system IR@AIKTC-KRRC

### 5.4.1 Branding through Facebook

Facebook is a low-cost marketing strategy with less than a fraction of cost. The ideal solution for running a small marketing campaign for every medium or small scale businesses with a limited budget plan. The networking site has observed tremendous growth over the year with more than one billion users. Every new product has a sure launch on Facebook due its features and versatility of using it. Every marketing agent will prefer promoting the product on Facebook due to its popularity. Marketing over Facebook can be achieved by creating a page of that product. The next assigned task would be to increase likes of the page. One can use the "Promote your Page" option which is readily available which lues a few bucks. The easiest way to increase the traffic is to ask the people and make them share it with their friends.. But again this is quite a lengthy process. Once your page reaches top insights, you do not need to be worried about the likes and popularity of the page. The regular updates and posts will show activeness and passion towards your business which again is effective in lead generation. The business page does come with all marketing tactics that need to be used wisely as well as patiently. The Facebook business page provides a platform to set your business name, entity.

address and availability. Hence it became an easy tool for the consumer to contact you for further queries.



Figure 5.1: Branding through Facebook

### 5.4.2 Branding through Instagram

Instagram is a modern social networking site which started as a picture sharing platform. It has gained immense popularity within less time. With its growing popularity, the developers have launched new features which include feed, filters, stories, etc. The easy connectivity to Facebook, Tumblr, Foursquare makes one go platform to share your pictures. When marketing is concerned, it's again a way effective tool that can reach the target audience. Instagram also sources a platform where people can promote their business and can generate leads. The communication with customers can be easily achieved through Direct Feed.

The marketing through Instagram is facilitated through the developed visual environment where the users and company can hold conversation publicly and sell their products.



### 5.4.3 Branding through Linkedin

Linkedin is another professional social employee-oriented service which can be wisely used to promote the product. Linkedin connects huge no. of professionals on a single platform and hence creating a page on Linkedin is very effective. Many Founders, CEO's use Linkedin to reflect their professional status. Hence for possibility, if they are looking for ERP vendor while surfing and dynamically choose your service.

Chapter 5. Marketing Plan for an ERP system IR@AIKTC-KRRC

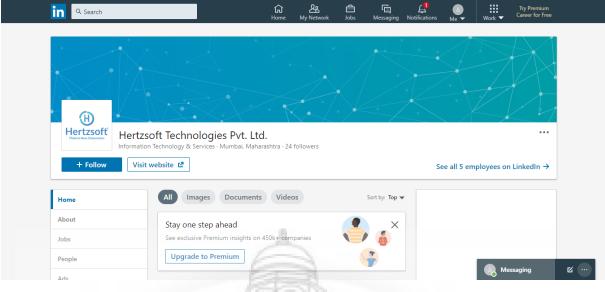


Figure 5.3: Branding through Linkedin



# **Chapter 6**



In order to maintain multiple records for the organisation's members there is a need of such softwares. This makes more easier to access the details of the employee. Since this software is completely based on CRUD(Create, Read, Update, Delete) operations it doesn't takes much time to upload the content to the database. Hence its time efficient. Also these kind of software can be customize according to the requirement and in future development there is a possibility that accessing and maintaining the products is possible.

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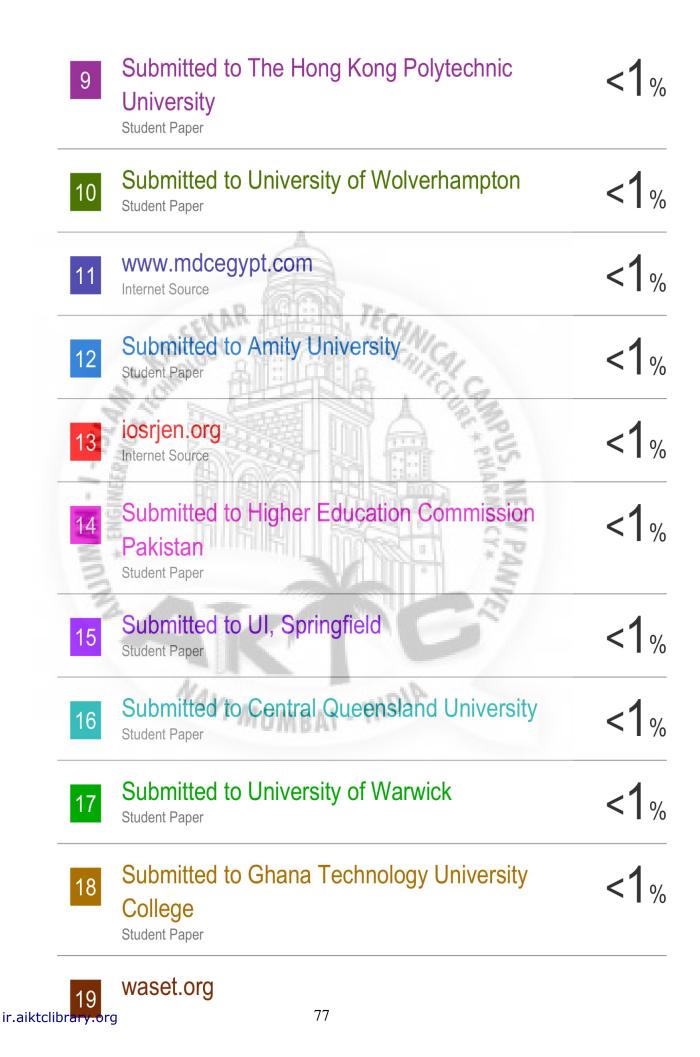
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# Chapter 7





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# **Chapter 8**

# **International Conference**

Title of Conference : Convergence-2020

Venue of Conference : Poornima Institute Of Engineering Technology, Jaipur

**Title of Paper I** : Implementation and use of ERP System In Organization and Educational Institution

Author Names : Ghatte Saqib Nisar, Singh Sudhanshu Somnath, Shinde Abhijit Jagganath, Fakih Awab Habib

NOIA

Paper Acceptance Date : 05-03-2020

Accepted : Springer AIS [ISSN: 2524-7565]

Date of Conference : 20th March, 2020

Mode of Presentation : Online

Title of Paper II : Design, Implementation Marketing of an ERP system.

Author Names : Ninad sail and Awab fakih

Paper Acceptance Date : 05-03-2020

Accepted : Scopus Indexed Publication

Date of Conference : 20th March, 2020

Mode of Presentation : Online

## 8.1 Abhijit and Sudhanshu's Paper Acceptance Letter

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			1	
		-		

#### **Reminder Regarding Registration for CONVERGENCE-2020**

1 message

**Convergence 2020** <convergence2020@easychair.org> To: Sudhanshu Singh <sudhanshusingh334@gmail.com> Thu, 12 Mar, 2020 at 10:26 am

Dear Sudhanshu Singh,

!!Greetings from CONVERGENCE-2020!!

Your paper entitled Implementation and use of ERP System in Organization and Educational Institution. was accepted and recommended for publication.

We have decided to extend the deadline for submission for the copyright form, camera ready paper with registration details (e.g. Transaction ID). We hope that the additional time will allow those of you who could not make it in time to registration for the conference due to Holi vacations.

Last Reminder-Please submit your Camera Ready Paper on or before 14-03-2020 with copyright & registration fee.

Please ensure the following before upload the final paper:

1. The paper must be in IEEE Format ( Or you can give the prescribed format)

2. The article has few typographical errors which may be carefully looked at Upload Your Paper in both format .docx and .pdf by name as your paper id.docx and your paper id.pdf (like if your paper id is 3 then file name will be 3.docx and 3.pdf)

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3. The regular fee will be charged up to 6 pages and after that additional Rs.500 per additional page will be charged.

4. Maximum 8 pages are allowed.

You can find copyright form using below mentioned link: http://convergence.poornima.org/?controller=pages&action=registration

Submit your camera ready paper (both docx & pdf) along with copyright form & transaction details using below link: http://convergence.poornima.org/?controller=upload&action=ucrp

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Delegate

Expert from Industry/PHD Scholar:INR 4000/-Authors from Academic Institutions:INR 3000/-Faculty (RTU Affiliated):INR 1500/-Student Author(PG):INR 1000/-Student Author(UG):INR 800/-Attendee:INR 500/-

Fee

\*Author will pay 500/- for individual certificate.

**REGISTRATION FEES DETAILS:** 

**REGISTRATION FEES DETAILS FOR ICSEC-2020** 

Account Name: PIET CONFERENCE ACCOUNT NO. TWO Account Number: 665420110000182 Bank: BANK OF INDIA, Ramchandrapura Branch, Jaipur IFSC Code: BKID0006654 SWIFT Code: BKIDINBBJPR

Registration Fees Details for ICSIE-2020 & ICSIS-2020

Account Name: PIET CONFERENCE ACCOUNT NO. THREE Account Number: 665420110000183 Bank: BANK OF INDIA, Ramchandrapura Branch, Jaipur IFSC Code: BKID0006654 SWIFT Code: BKIDINBBJPR

If you have already submitted all details so kindly ignore it.

# Chapter 8. International Conference IR@AIKTC-KRRC

For any queries contact: icsis@poornima.org icsec@poornima.org icsie@poornima.org

Contact Details: 9694802324, 9983175627

Thanking you Dr. Dinesh Goyal (General Chair Convergence-2020)



### 8.2 Ninad's Acceptance Paper Letter

4/15/2020

Gmail - Congratulation for Paper Acceptance

M Gmail

Ninad Sail <sailninad@gmail.com>

5 March 2020 at 12:31

### **Congratulation for Paper Acceptance**

2 messages

#### Convergence 2020 <convergence 2020@easychair.org> To: Ninad Sail <sailninad@gmail.com>

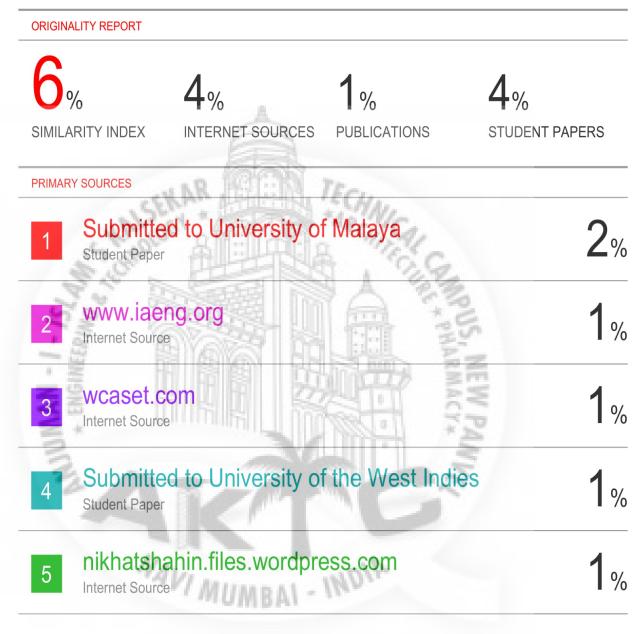
Dear Ninad Sail, !!Greetings from ICSEC-2020!! Thank you for submission of your paper in ICSEC-2020, publication partner Springer and Scopus/UGC Care Indexed Journals. We appreciate your contribution towards ICSEC-2020 scheduled on 20-21 March 2020 at Poornima Institute of Engineering & Technology, Jaipur Your paper entitled Design, Implementation & Marketing of an ERP system was accepted and recommended for presentation in one of the followings Series/special issue of journals: Springer Book Series: "Algorithms for Intelligent Systems (AIS)- Springer" (ISSN: 2524-7565) Bentham Science: "Recent Patents on Computer Science" (ISSN: 2666-2566) UGC Care Indexed Journals Please submit your Revised Paper on or before 12-03-2020. The Last date for Early bird registration is 09-03-2020. The Last date for late registration is 12-03-2020. Please ensure the following before upload the final paper: 1. The paper must be in prescribed format only 2. The article has no errors which may be carefully looked at 3.Complete the copyright form which are available on http://convergence.poornima.org/ For Registration please visit: http://convergence.poornima.org/?controller=pages&action=registration and upload your updated paper in PDF/DOCX, duly signed copyright form and Payment Receipt To complete the payment use the following account details Account Name: PIET CONFERENCE ACCOUNT NO. TWO Account Number: 665420110000182 Bank: BANK OF INDIA, Ramchandrapura Branch, Jaipur IFSC Code: BKID0006654 SWIFT Code: BKIDINBBJPR For any queries contact icsec@poornima.org - INDIA Thanking you Dr. Dinesh Goyal (General Chair ICSEC-2020)

Ninad Sail <sailninad@gmail.com> To: abhijit shinde <abhishinde703@gmail.com> 15 March 2020 at 19:14

[Quoted text hidden]

# 8.3 Abhijit and Sudhanshu's Paper Plagiarism Report

Implementation and use of ERP System in Organization and Educational Institution



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# 8.4 Ninad's Paper Plagiarism Report

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## 8.5 Abhijit and Sudhanshu's Paper Copyright Form

### Publishing Agreement

# **SPRINGER NATURE**

for Contributions in Collected Works

This Publishing Agreement (this "Agreement") has been approved by and entered into between

Fakih Awab Habib, [Assistant Professor, Anjuman I Islam Kalsekar Technical Campus, Mumbai University, Sector 16, Near Thana Naka, Khandagaon, New Panvel, Navi Mumbai, Maharashtra-410206],

Ghatte Saqib Nisar, [Room No. 14, Ground Floor, 15-B Siddika Manzil Umerkhadi X Lane, Opp: Bombay Hotel, Near DCB Bank Mohammed, Nishanpada Road, Mohammed, Umer Kokil Marg, Dongri, Mumbai, Maharashtra-400009],

Singh Sudhanshu Somnath, [C/004, Mohan Hieght's, Near Ganpati Mandir, Goveli Road, Opp. VJ Honda, Titwala(E), Maharashtra-421605],

Shinde Abhijit Jagganath[799, Tulja Bhavani Society, Near RTP High School, Dawadi Road, Dawadi Gaon, Dombivali(E), Maharashtra-421203].

(the "Author")

whereas, in the event that the Author is more than one person, *Singh Sudhanshu Somnath* serves as corresponding author (the "Corresponding Author")

on the one part and

Springer Nature Singapore Pte Ltd. 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore (the "Publisher")

on the other part;

together hereinafter referred to as the "Parties".

The Publisher intends to publish the Author's contribution in a collected work provisionally entitled: Proceedings of Second International Conference on Smart Energy and Communication

- ICSEC 2020 (the "Work")

edited by:

Dr. Dinesh Goyal, Dr. Pradyumn Chaturved, Prof. Atulya K. Nagar & Dr. S D Purohit (the "Editor")

The Publisher intends to publish the Work under the imprint Springer. The Work may be published in the book series Algorithms for Intelligent Systems.

#### **§1** Contracting authors

When the Author is more than one person then, unless otherwise indicated in this Agreement or agreed in writing by the Publisher: (a) the expression "Author" as used in this Agreement will apply collectively for all such persons (each a "co-author"); (b) the Corresponding Author hereby warrants and represents that all co-authors of the contribution have expressly agreed that the Corresponding Author has full right, power and authority to sign this Agreement on their behalf, that the Corresponding Author is entitled to act on their behalf, and that they shall be bound by the Corresponding Author, with respect to all matters, responsibilities, notices and communications related to this Agreement; the Corresponding Author shall obtain authorisations and make them available to the Publisher on request; and (c) each co-author is jointly and severally responsible for the Author's obligations under this Agreement which apply to each co-author individually and to the co-authors collectively and the Publisher shall not be bound by any separate agreement or legal relationship as between the co-authors.

#### §2 Subject of the Agreement

2.1 The Author will prepare a contribution provisionally entitled:

#### Implementation and use of ERP System in Organization and Educational Institution

The expression "Contribution" as used in this Agreement means the contribution as identified above, and includes without limitation all related material delivered to the Publisher by or on behalf of the Author whatever its media and form (including text, graphical elements, tables, videos and/or links) in all versions and editions in whole or in part.

2.2 The Contribution may contain links (e.g. frames or in-line links) to media enhancements (e.g. additional documents, tables, diagrams, charts, graphics, illustrations, animations, pictures, videos and/or software) or to social or functional enhancements, complementing the Contribution, which are provided on the Author's own website or on a third party website or repository (e.g. maintained by an institution) subject always to the Author providing to the Editor, at the latest at the delivery date of the manuscript for the Contribution, an accurate description of each media enhancement and its respective website or repository, including its/their owner, nature and the URL. The Publisher is entitled to reject the inclusion of, or suspend, or delete links to all or any individual media enhancements.

2.3 In the event that an index is deemed necessary, the Author shall assist the Editor in its preparation (e.g. by suggesting index terms), if requested by the Editor.

#### § 3 Rights Granted

**3.1** The Author hereby grants to the Publisher the perpetual, sole and exclusive, world-wide, transferable, sub-licensable and unlimited right to publish, produce, copy, distribute, communicate, display publicly, sell, rent and/or otherwise make available the Contribution in any language, in any versions or editions in any and all forms and/or media of expression (including without limitation in connection with any and all end-user devices), whether now known or developed in the future, in each case with the right to grant further time-limited or permanent rights. The above rights are granted in relation to the Contribution as a whole or any part and with or in relation to any other works.

Without limitation, the above grant includes: (a) the right to edit, alter, adapt, adjust and prepare derivative works; (b) all advertising and marketing rights including without limitation in relation to social media; (c) rights for any training, educational and/or instructional purposes; and (d) the right to add and/or remove links or combinations with other media/works.

The Author hereby grants to the Publisher the right to create, use and/or license and/or sub-license content data or metadata of any kind in relation to the Contribution or parts thereof (including abstracts and summaries) without restriction.

The Publisher also has the right to commission completion of the Contribution in accordance with the Clause "Author's Responsibilities – Delivery and Acceptance of the Manuscript" and of an updated version of the Contribution for new editions of the Work in accordance with the Clause "New Editions".

**3.2** The copyright in the Contribution shall be vested in the name of the **Author**. The Author has asserted their right(s) to be identified as the originator of the Contribution in all editions and versions, published in all forms and media. The Author agrees that all editing, alterations or amendments to the Contribution made by or on behalf of the Publisher or its licensees for the purpose of fulfilling this Agreement or as otherwise allowed by the above rights shall not require the approval of the Author and will not infringe the Author's "moral rights" (or any equivalent rights). This includes changes made in the course of dealing with retractions or other legal issues.

#### § 4 Self-Archiving and Reuse

**4.1** Self-Archiving: The Publisher permits the Rights Holder to archive the Contribution in accordance with the Publisher's guidelines, the current version of which is set out in the Appendix "Author's Self-Archiving Guidelines".

**4.2 Reuse:** The Publisher permits the Author to copy, distribute or otherwise reuse the Contribution, without the requirement to seek specific prior written permission from the Publisher, in accordance with the Publisher's guidelines, the current version of which is set out in the **Appendix** "Author's Reuse Rights".

#### § 5 The Publisher's Responsibilities

**5.1** Subject always to the other provisions of this Clause below, the Publisher will undertake the production, publication and distribution of the Contribution and the Work in print and/or electronic form at its own expense and risk within a reasonable time after acceptance of the Work unless the Publisher is prevented from or delayed in doing so due to any circumstances beyond its reasonable control. The Publisher shall have the entire control of such production, publication and distribution determined in its sole discretion in relation to any and all editions and versions of the Contribution and the Work, including in respect of all the following matters:

(a) distribution channels, including determination of markets;

(b) determination of the range and functions of electronic formats and/or the number of print copies produced;

(c) publication and distribution of the Contribution, the Work, or parts thereof as individual content elements, in accordance with market demand or other factors;

(d) determination of layout and style as well as the standards for production;

(e) setting or altering the list-price, and allowing for deviations from the list-price (if permitted under applicable jurisdiction);

(f) promotion and marketing as the Publisher considers most appropriate.

**5.2** All rights, title and interest, including all intellectual property or related rights in the typography, design and/or look-and-feel of the Contribution shall remain the exclusive property of and are reserved to the Publisher. All illustrations and any other material or tangible or intangible property prepared at the expense of the Publisher including any marketing materials remain, as between the Parties, the exclusive property of the Publisher. The provisions of this sub-clause shall continue to apply notwithstanding any termination of, and/or any reversion of rights in the Contribution to the Author, under this Agreement.

**5.3** Without prejudice to the Publisher's termination and other rights hereunder including under the Clause "**The Author's Responsibilities**", it is agreed and acknowledged by the Parties that nothing in this Agreement shall constitute an undertaking on the part of the Publisher to publish the Contribution unless and until: (i) any and all issues in relation to the Work (including all necessary revisions, consents and permissions) raised by the Publisher have been resolved to the Publisher's satisfaction, and (ii) the Publisher has given written notice of acceptance in writing of the final manuscript of the entire Work to the Editor. If following (i) and (ii) above the Publisher has not published the Contribution in any form within a reasonable period and the Author has given written notice to the Publisher requiring it to publish within a further reasonable period and the Publisher nay form, then the Author may terminate this Agreement by one month's written notice to the Publisher and all rights granted by the Author to the Publisher under this Agreement shall revert to the Author (subject to the provisions regarding any third party rights under any subsisting licence or sub-licence in accordance with the Clause "**Termination**").

The Author may also give such written notice requiring publication on the same terms as above if the Publisher has published the Contribution but subsequently ceases publishing the Contribution in all forms so that it is no longer available.

This shall be the Author's sole right and remedy in relation to such non-publication and is subject always to the Author's continuing obligations hereunder including the Clause "Warranty".

#### § 6 The Author's Responsibilities

#### 6.1 Delivery and Acceptance of the Manuscript

**6.1.1** The Author shall deliver the Contribution to the Editor (or, if requested by the Publisher, to the Publisher) on or before **18-12-2020** (the "**Delivery Date**") electronically in the Publisher's standard requested format or in such other form as may be agreed in writing with the Publisher. The Author shall retain a duplicate copy of the Contribution. The Contribution shall be in a form acceptable to the Publisher (acting reasonably) and in line with the instructions contained in the Publisher's guidelines as provided to the Author by the Publisher. The Author shall provide at the same time, or earlier if the Publisher reasonably requests, any editorial, publicity or other information (and in such form or format) reasonably required by the Publisher. The Publisher may exercise such additional quality control of the manuscript as it may decide at its sole discretion including through the use of plagiarism checking systems and/or peer-review by internal or external reviewers of its choice. If the Publisher decides at its sole discretion that the final manuscript does not conform in quality, content, structure, level or form to the stated requirements of the Publisher, the Publisher shall be entitled to terminate this Agreement in accordance with the provisions of this Clause.

**6.1.2** The Author must inform the Publisher at the latest on the Delivery Date if the sequence of the naming of any co-authors entering into this Agreement shall be changed. If there are any changes in the authorship (e.g. a co-author joining or leaving), then the Publisher must be notified by the Author in writing immediately and the Parties will amend this Agreement accordingly. The Publisher shall have no obligation to consider publication under this Agreement in the absence of such agreed amendment.

**6.1.3** If the Author fails to deliver the Contribution in accordance with the provisions of this Clause above by the Delivery Date (or within any extension period given by the Publisher at its sole discretion) or if the Author (or any co-author) dies or becomes incapacitated or otherwise incapable of performing the Author's obligations under this Agreement, the Publisher shall be entitled to either:

(a) elect to continue to perform this Agreement in accordance with its terms and the Publisher may commission an appropriate and competent person (who, in the case of co-authors having entered into this Agreement, may be a co-author) to complete the Contribution; or (b) terminate this Agreement with immediate effect by written notice to the Author or the Author's successors, in which case all rights granted by the Author to the Publisher under this Agreement shall revert to the Author/Author's successors (subject to the provisions of the Clause "Termination").

**6.1.4** The Author agrees, at the request of the Publisher, to execute all documents and do all things reasonably required by the Publisher in order to confer to the Publisher all rights intended to be granted under this Agreement.

**6.1.5** The Author warrants that the Contribution is original except for any excerpts from other works including pre-published illustrations, tables, animations, text quotations, photographs, diagrams, graphs or maps, and whether reproduced from print or electronic or other sources ("**Third Party Material**") and that any such Third Party Material is in the public domain (or otherwise unprotected by copyright/other rights) or has been included with written permission from or on behalf of the rights holder (and if requested in a form prescribed or approved by the Publisher) at the Author's expense unless otherwise agreed in writing, or is otherwise used in accordance with applicable law. On request from the Publisher, the Author shall in writing indicate the precise sources of these excerpts and their location in the manuscript. The Author shall also retain the written permissions and make them available to the Publisher on request.

#### 6.2 Approval for Publishing

**6.2.1** The Author shall proofread the page proofs for the Contribution provided by or on behalf of the Publisher, including checking the illustrations as well as any media, social or functional enhancements and give approval for publishing, if and when requested by the Publisher. The Author's approval for publishing is deemed to have been given if the Author does not respond within a reasonable period of time (as determined by the Publisher) after receiving the proofs. The Publisher shall not be required to send a second set of corrected proofs unless specifically requested by the Author in writing but in any event no further amendments may be made or requested by the Author.

In the event of co-authors having entered into this Agreement the Publisher shall send the page proofs to the Corresponding Author only and all persons entering into this Agreement as Author agree that the Corresponding Author shall correct and approve the page proofs on their behalf.

**6.2.2** If the Author makes changes other than correcting typographical errors, the Author shall bear all the Publisher's costs of such alterations to proofs including without limitation to alterations to pictorial illustrations. The Publisher shall have the right to charge and invoice these costs plus value added or similar taxes (if applicable) through its affiliated company Springer Nature Customer Service Center GmbH or Springer Nature Customer Service Center LLC, respectively, to the Author, payable within 14 days of receipt of the invoice.

#### §7 Co-operation

Without prejudice to the warranties and representations given by the Author in this Agreement, the Author shall cooperate fully with the Editor and the Publisher in relation to any legal action that might arise from the publication or intended publication of the Contribution and the Author shall give the Publisher access at reasonable times to any relevant accounts, documents and records within the power or control of the Author.

#### § 8 Warranty

#### 8.1 The Author warrants and represents that:

(a) the Author has full right, power and authority to enter into and perform its obligations under this Agreement; and

(b) the Author is the sole legal owner of (and/or has been fully authorised by any additional rights owner to grant) the rights licensed in the Clause "Rights Granted" and use of the Contribution shall in no way whatever infringe or violate any intellectual property or related rights (including any copyright, database right, moral right or trademark right) or any other right or interest of any third party subject only to the provisions in the Clause "The Author's Responsibilities" regarding Third Party Material (as defined above); and

(c) the Contribution shall not contain anything that may cause religious or racial hatred or encourage terrorism or unlawful acts or be defamatory (or contain malicious falsehoods), or be otherwise actionable, including, but not limited to, any action related to any injury resulting from the use of any practice or formula disclosed in the Contribution and all of the purported facts contained in the Contribution are according to the current body of science and understanding true and accurate; and

(d) there is no obligation of confidentiality owed in respect of any contents of the Contribution to any third party and the Contribution shall not contain anything which infringes or violates any trade secret, right of privacy or publicity or any other personal or human right or the processing or publication of which could breach applicable data protection law and that informed consent to publish has been obtained for all research or other featured participants; and

(e) the Contribution has not been previously licensed, published or exploited and use of the Contribution shall not infringe or violate any contract, express or implied, to which the Author, or any co-author, who had entered into this Agreement, is a party and any academic institution, employer or other body in which work recorded in the Contribution was created or carried out has authorised and approved such work and its publication.

8.2 The Author warrants and represents that the Author, and each co-author who has entered into this Agreement, shall at all times comply in full with:

(a) all applicable anti-bribery and corruption laws; and

(b) all applicable data protection and electronic privacy and marketing laws and regulations; and

(c) the Publisher's ethic rules (available at https://www.springernature.com/gp/authors), as may be updated by the Publisher at any time in its sole discretion. The Publisher shall notify the Author in the event of material changes by email or other written means

#### (the "Applicable Laws").

If the Author is in material breach of any of the Applicable Laws or otherwise in material breach of accepted ethical standards in research and scholarship, or becomes the subject of any comprehensive or selective sanctions issued in any applicable jurisdiction (e.g. being subject to the OFAC sanctions list) or if, in the opinion of the Publisher, at any time any act, allegation or conduct of or about the Author prejudices the production or successful exploitation of the Contribution and the Work or brings the name and/or reputation of the Publisher or the Work into disrepute, or is likely to do so, then the Publisher may terminate this Agreement in accordance with the Clause "Termination".

8.3 The Publisher reserves the right to amend and/or require the Author to amend the Contribution at any time to remove any actual or potential breach of the above warranties and representations or otherwise unlawful part(s) which the Publisher or its internal or external legal advisers identify at any time. Any such amendment or removal shall not affect the warranties and representations given by the Author in this Agreement.

#### § 9 Author's Discount and Electronic Access

The Author, or each co-author, is entitled to purchase for their personal use the Work and other books published by the Publisher at a 9.1 discount of 40% off the list price, for as long as there is a contractual arrangement between the Author and the Publisher and subject to any applicable book price law or regulation. The copies must be ordered from the affiliated entity of the Publisher (Springer Nature Customer Service Center GmbH or Springer Nature Customer Service Center LLC, respectively). Resale of such copies is not permitted.

9.2 The Publisher shall provide the electronic final published version of the Work to the Author, provided that the Author has included their email address in the manuscript of the Contribution.

#### § 10 Consideration

10.1 The Parties agree that the Publisher's agreement to its contractual obligations in this Agreement in respect of its efforts in considering publishing and promoting the Contribution and the Work is good and valuable consideration for the rights granted and obligations undertaken by the Author under this Agreement, the receipt, validity and sufficiency of which is hereby acknowledged by the Author. The Parties expressly agree that no royalty, remuneration, licence fee, costs or other moneys whatsoever shall be payable to the Author, subject to the following provisions of this Clause.

The Publisher and the Author each have the right to authorise collective management organisations ("CMOs") of their choice to manage 10.2 some of their rights. Reprographic and other collectively managed rights in the Contribution ("Collective Rights") have been or may be licensed on a non-exclusive basis by each of the Publisher and the Author to their respective CMOs to administer the Collective Rights under their reprographic and other collective licensing schemes ("Collective Licences"). Notwithstanding the other provisions of this Clause, the Publisher and the Author shall each receive and retain their share of revenue from use of the Contribution under Collective Licences from, and in accordance with the distribution terms of their respective CMOs. To the fullest extent permitted by law, any such revenue is the sole property of the Publisher and the Author respectively and, if applicable, the registration and taxation of that revenue is the sole responsibility of the respective recipient party. The Publisher and the Author shall cooperate as necessary in the event of any change to the licensing arrangements set out in this Clause.

#### § 11 New Editions

11.1 The Publisher has the sole right to determine whether to publish any subsequent edition of the Work containing an updated version of the Contribution, but only after reasonable consultation with the Author. Once notified by the Publisher that an update of the Contribution is deemed necessary, the Author agrees to deliver an updated manuscript in accordance with the terms of the Clause "The Author's Responsibilities" and the other relevant provisions of this Agreement, together with the material for any new illustrations and any other supporting content including media enhancements, within a reasonable period of time (as determined by the Publisher) after such notification. Substantial changes in the nature or size of the Contribution require the written approval of the Publisher at its sole discretion. The terms of this Agreement shall apply to any new edition of the Work that is published under this "New Editions" Clause.

If the Author, for whatever reason, is unwilling, unable or fails (including as a result of death or incapacity) to submit an updated 11.2 manuscript that meets the terms of this Agreement within the above stated period, then the Publisher is entitled to revise, update and publish the content of the existing edition or to designate one or more individuals (which, where co-authors have entered into this Agreement, may be one or more of the co-authors) to prepare this and any future editions provided that the new editions shall not contain anything that is a derogatory use of the Author's work that demonstrably damages the Author's scientific reputation. In such case, the Author shall not participate in preparing any subsequent editions. The Author agrees that the Publisher shall be entitled but not obliged to continue to use the name of Author on any new editions of the Work together with the names of the person or persons who contributed to the new editions. Should the Author or the Author's

except where stated otherwise in this Agreement, any claim which either Party may have against the other for damages or otherwise in respect of any rights or liabilities arising prior to the date of termination;

(a) the Publisher's right to continue to sell any copies of the Work which are in its power, possession or control as at the date of expiry or termination of this Agreement for a period of 6 months on a non-exclusive basis.

#### §13 General Provisions

**13.1** This Agreement, and the documents referred to within it, constitute the entire agreement between the Parties with respect to the subject matter hereof and supersede any previous agreements, warranties, representations, undertakings or understandings. Each Party acknowledges that it is not relying on, and shall have no remedies in respect of, any undertakings, representations, warranties, promises or assurances that are not set forth in this Agreement. Nothing in this Agreement shall exclude any liability for or remedy in respect of fraud, including fraudulent misrepresentation. This Agreement may be modified or amended only by agreement of the Parties in writing. For the purposes of modifying or amending this Agreement, "in writing" requires either a document written and signed by both the Parties or an electronic confirmation by both the Parties with DocuSign or a similar e-signature solution. Any notice of termination and/or reversion and, where applicable, any preceding notices (including any requesting remediable action under the Clause "**Termination**") must be provided in writing and delivered by post, courier or personal delivery addressed to the physical address of the relevant Party as set out at the beginning of this Agreement or any replacement address notified to the other Party for this purpose. All such notice shall become effective upon receipt by the other Party. Receipt is deemed to have taken place five working days after the respective notice was sent by post or left at the address by courier or personal delivery. If the Publisher is the terminating Party the notice need only be provided to the address of the Corresponding Author. If the Author is the terminating Party a copy of the notice must also be sent to the Publisher's Legal Department located at Heidelberger Platz 3, 14197 Berlin, Germany.

**13.2** Nothing contained in this Agreement shall constitute or shall be construed as constituting a partnership, joint venture or contract of employment between the Publisher and the Author. No Party may assign this Agreement to third parties but the Publisher may assign this Agreement or the rights received hereunder to its affiliated companies. In this Agreement, any words following the terms "include", "including", "in particular", "for example", "e.g." or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

**13.3** If any difference shall arise between the Author and the Publisher concerning the meaning of this Agreement or the rights and liabilities of the Parties, the Parties shall engage in good faith discussions to attempt to seek a mutually satisfactory resolution of the dispute. This Agreement shall be governed by, and shall be construed in accordance with, the laws of *the Republic of Singapore*. The courts of *Singapore*, *Singapore* shall have the exclusive jurisdiction.

**13.4** A person who is not a party to this Agreement (other than an affiliate of the Publisher) has no right to enforce any terms or conditions of this Agreement. This Agreement shall be binding upon and inure to the benefit of the successors and assigns of the Publisher. If one or more provisions of this Agreement are held to be unenforceable (in whole or in part) under applicable law, each such provision shall be deemed excluded from this Agreement and the balance of the Agreement shall remain valid and enforceable but shall be interpreted as if that provision were so excluded. If one or more provisions are so excluded under this Clause then the Parties shall negotiate in good faith to agree an enforceable replacement provision that, to the greatest extent possible under applicable law, achieves the Parties' original commercial intention.

The Corresponding Author signs this Agreement on behalf of any and all co-authors.

NAVIM

#### Signature of Corresponding Author:

Date:

18/04/2020

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#### Appendix "Author's Self-Archiving Rights"

The Publisher acknowledges that the Author retains rights to archive the Contribution but only subject to and in accordance with the following provisions:

#### 1. Preprint:

A "Preprint" is defined as the Author's version of the Contribution submitted to the Publisher but before any peer-review or any other editorial work by or on behalf of the Publisher has taken place.

The Author may make available the Preprint of the Contribution for personal and private reading purposes only on any of:

(a) the Author's own personal, self-maintained website over which the Author has sole operational control; and/or

(b) a legally compliant, non-commercial preprint server, such as but not limited to arXiv, bioRxiv and RePEc; provided always that once the "Version of Record" (as defined below) of the Contribution has been published by or on behalf of the Publisher, the Author shall immediately ensure that any Preprint made available above shall contain a link to the Version of Record and the following acknowledgement:

"This is a preprint of the following chapter: [author of the chapter], [chapter title], published in [book title], edited by [editor of the book], [year of publication], [publisher (as it appears on the cover of the book)] reproduced with permission of [publisher (as it appears on the copyright page of the book)]. The final authenticated version is available online at: http://dx.doi.org/[insert DOI]".

#### 2. Author's Accepted Manuscript:

The "Author's Accepted Manuscript" ("AAM") is defined as the version of the Contribution following any peer-review and acceptance, but prior to copyediting and typesetting, by or on behalf of the Publisher.

The Author may make available the AAM of the Contribution on any of: (a) the Author's own, personal, self-maintained website over which the Author has sole operational control; and/or (b) the Author's employer's internal website or their academic institution or funder's repository; provided that in each case the respective part of the AAM is not made publicly available until after the Embargo Period.

The "Embargo Period" is a period ending twelve (12) months from the first publication of the "Version of Record" (as defined below) of the Contribution by or on behalf of the Publisher.

The Author must ensure that any part of the AAM made available contains the following:

"Users may only view, print, copy, download and text- and data-mine the content, for the purposes of academic research. The content may not be (re-)published verbatim in whole or in part or used for commercial purposes. Users must ensure that the author's moral rights as well as any third parties' rights to the content or parts of the content are not compromised." 100

These terms shall also be applicable to the Author.

Once the Version of Record (as defined below) of the Contribution has been published by or on behalf of the Publisher the Author shall immediately ensure that any part of the AAM made available shall contain a link to the Version of Record and the following acknowledgement: "This is an Author Accepted Manuscript version of the following chapter: [author of the chapter], [chapter title], published in [book title], edited by [editor of the book], [year of publication], [publisher (as it appears on the cover of the book)] reproduced with permission of [publisher (as it appears on the copyright page of the book)]. The final authenticated version is available online at: http://dx.doi.org/[insert DOI]".

3. Version of Record:

The "Version of Record" is defined as the final version of the Contribution as originally published, and as may be subsequently amended following publication in a contractually compliant manner, by or on behalf of the Publisher.

4. Any linking, collection or aggregation of self-archived Contributions from the same Work is strictly prohibited.

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# **Chapter 9**

# Internship

**Role of Sudhanshu and Abhijit in Hertzsoft**: We both joined Hertzsoft Technologies Pvt. Ltd. from 22nd of August, 2019. We joined this company as a web intern. First two months was our training period where we learned all the necessary skills for the completion of the project. The day we recieved this project, company assigned us to complete the whole project. We played a full-stack web developer role and successfully completed the project.

**Role of Ninad in Spyn**: I joined Spyn (Atzos Ventures Pvt. Ltd) from 14th Aug 2019. I joined this company as a Digital Marketing Intern and having area of specialization in Social Media Marketing (SMM), Content Writing, Search Engine Optimization (SEO), Google Adwords Copy writing. My duties towards the company was,

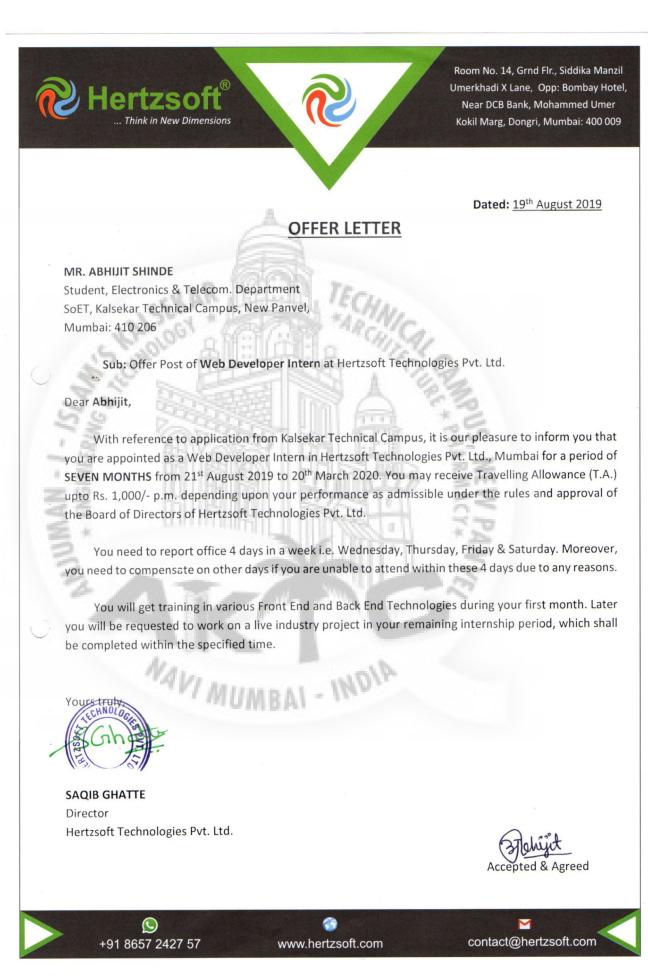
- To efficiently handle the social media accounts of the company and track the engagement of people on them.
- To plan the Social Media Calendar (SMC) for the sites and track the performance of the posts.
- To focus on new campaigns for Facebook Google Adwords to analyze how effective the ads can be written.
- To write the blogs that will generate the traffic for the website.
- To plan new strategies for generating organic traffic using SEO tactics.

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## 9.1 Sudhanshu's Internship Offer Letter



# 9.2 Abhijit's Internship Offer Letter



### 9.3 Ninad's Internship Offer Letter



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#### Internship Agreement

14 August, 2019

Sub: Offer of internship

Dear Ninad Sail,

On behalf of Atzos Ventures Pvt Ltd and team Spyn, I am pleased to confirm our offer of internship. We extend this offer, and the opportunity it represents, with great confidence in your abilities. This offer is conditional upon (i) satisfactory reference check of all qualifications (ii) the acceptance of the terms & conditions of your assignments as set forth below.

#### Position: Digital Marketing Intern

Reporting and assignment: You will be reporting to *Sudarshan Karnavat*, Co-Founder Date of Internship commencement: **16 Aug 2019** Duration: **6 months** 

Stipend: Rs.2000.00 per month

	Our values	YARA NULEEL EL
	Energy	Be proactive. Be cheerful. Go all in.
ċ	Passion	Work with passion. Get guaranteed satisfaction. Keep stress away.
Ē	Creativity	Your creative juices can change the world. Let them out.
2	Integrity	In Sports and in Spyn, rules are not meant to be broken. Be a Sport.
1	Determination	It ain't over until it's over. Keep at it. Own it.
	Fun	The underlying principle of any sport. And of life.

#### Terms and conditions:

Your Internship with us will be governed by our Terms and Conditions as detailed in *Annexure B*. At the time of joining, it is mandatory for you to submit the documents mentioned in the acceptance agreement.

Ninad, we wish you all the best and hope you will achieve your learning goals with Atzos Ventures Pvt. Ltd.

Sincerely, For Atzos Ventures Pvt. Ltd.

Authorized Signatory

spynPRO is a brand of Atzos Ventures Pvt Ltd CIN U74900MH2015PTC264123

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# Codes

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