

# **VISITOR MANAGEMENT**

## **A PROJECT REPORT**

**Submitted by**

**DAXESH TADVI**

**200410107127**

**In fulfillment of the award of the degree of**

**BACHELOR OF ENGINEERING**

**in**

**Computer Engineering**

**SARDAR VALLABHBHAI PATEL INSTITUTE OF TECHNOLOGY**



**Gujarat Technological University, Ahmedabad**

**May 2024-25**



**Sardar Vallabhbhai Patel Institute of Technology**  
SVIT Road, Rajupura Village, Vasad, Anand, Gujarat 388306

## **CERTIFICATE**

This is to certify that the project report submitted along with the project entitled **Visitor Management** has been carried out by **DAXESH B TADVI (200410107127)** under my guidance in fulfillment for the degree of Bachelor of Engineering in **Computer Engineering**, 8th Semester of Gujarat Technological University, Ahmedabad during the academic year **2023-24**.

Rishi Patel  
Internal Guide

Dr. Neha Soni  
Head of the Department

Date: 20 Apr, 2024

**To Whomsoever It May Concern**

This is to certify that **Daxesh Tadvi**, student of **Sardar Vallabhbhai Patel Institute of Technology** has successfully completed **three months** internship in our organization Bharti soft Tech Pvt Ltd.

The duration of this internship was from **19 Jan, 2024** to **20 Apr, 2024**.

His contribution for the project **Visitor Management using Node JS and React JS** has been reviewed and found to be satisfactory as per our requirements.

We wish him all the best for his future.

Best Regards,

For Bharti Soft tech Pvt. Ltd.

  
AKSHESH PANCHAL

Akshesh Panchal  
Director

---

**Bharti Soft Tech Private Limited**

Corporate Office: 261 GIDC, 808 Lane, Makarpura, Vadodara 390010

Regd. Office: "Devmani" D-1, Khodiyar Nagar, GIDC Road, Manjalpur, Vadodara 390011

support@bcssarl.com

www.bcssarl.com

+91 9924829111 / +91 9924973111

CIN: U72200GJ2011PTC064880



## **SARDARVALLABHBHAIPATELINSTITUTE OF TECHNOLOGY**

**SVIT Road, Rajupura Village, Vasad, Anand, Gujarat 388306**

### **DECLARATION**

I hereby declare that the Internship report submitted along with the Internship entitled **Visitor Management** submitted in fulfillment for the degree of Bachelor of Engineering in **Computer Engineering** to Gujarat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me at **Bharti Soft Tech Pvt Ltd** under the supervision of **Mr. Pritamsinh Parmar** and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the student

DAXESH TADVI

Signature of Student

## ACKNOWLEDGEMENT

I extend my heartfelt gratitude to Bharti Soft Tech Pvt Ltd for providing me with the invaluable opportunity to undertake my internship with their esteemed organization. The experience I gained during my time at Bharti Soft Tech has been instrumental in shaping my professional growth and enhancing my skill set.

I would like to express my sincere appreciation to Mr. Pritamsinh Parmar, for their guidance, support, and mentorship throughout my internship. Their expertise and encouragement have been invaluable in helping me navigate the challenges and opportunities encountered during the internship period.

Furthermore, I am indebted to the entire team at Bharti Soft Tech for their cooperation, assistance, and willingness to share their knowledge and expertise with me. Their collaborative spirit created an enriching and conducive environment for learning and growth.

I am also deeply grateful to Rishi Patel from SVIT College for their unwavering support, guidance, and valuable insights throughout the internship process. Their mentorship and encouragement have been pivotal in helping me integrate classroom knowledge with real-world applications, enriching my learning experience.

I am also grateful to my professors and the faculty members of SVIT College for their continuous support, encouragement, and guidance throughout my academic journey. Their dedication to nurturing students' potential has played a significant role in my development.

Lastly, I would like to express my deepest gratitude to my family for their unwavering support, understanding, and encouragement. Their love and encouragement have been my source of strength and motivation.

This internship experience has been truly enriching and fulfilling, and I am grateful to all who have contributed to making it a success.

## ABSTRACT

The Visitor Management System (VMS) with QR code scan is an innovative solution designed to streamline the process of visitor registration and enhance security within an organization. This project aims to develop a comprehensive system that efficiently manages visitors, employees, and company assets through a centralized platform. The system consists of two main components: the visitor management module and the administrative dashboard. The visitor management module facilitates the registration of visitors by generating unique QR codes for each visitor upon registration. These QR codes are then scanned upon entry, allowing for quick and accurate check-in and check-out procedures. Additionally, the module maintains a detailed log of visitor records, including their personal information, purpose of visit, and entry/exit timestamps.

The administrative dashboard provides authorized personnel, such as administrators and employees, with access to valuable insights and functionalities. Administrators can oversee the entire system, manage employee profiles, and generate reports on visitor traffic and asset utilization. Moreover, employees can utilize the dashboard to access their personal information, view upcoming appointments, and register visitors on behalf of their departments.

Furthermore, the system incorporates features for asset management, allowing administrators to track the allocation and usage of company assets. This includes maintaining an inventory of assets, tracking their movement within the organization, and generating reports on asset utilization and maintenance schedules.

Overall, the Visitor Management System with QR code scan and administrative dashboard offers a user-friendly and efficient solution for managing visitors, employees, and company assets. By implementing this system, organizations can enhance security measures, improve visitor experiences, and streamline administrative processes.

## LISTOFFIGURES

Fig.2.1 incremental Model design.....	5
Fig.5.1 Visitor Managment Database.....	17
Fig.5.2 AdminTable.....	18
Fig.5.3 Asset Table.....	18
Fig.5.4 Visitor Table .....	19
Fig.5.5 Category Table .....	19
Fig.5.6 Employee Table .....	20
Fig.5.7 Use Case(Admin).....	21
Fig.5.8 Use Case(Employee).....	22
Fig.5.9 Use Case(Visitor).....	23
Fig.5.10 ActivityDiagram.....	24
Fig.5.11 ERDiagram.....	25
Fig.6.1 Home Page.....	28
Fig.6.2 Adminlogin.....	28
Fig.6.3 Admin Dashboard.....	29
Fig.6.4 View Employee.....	29
Fig.6.5 Add Employee.....	30
Fig.6.6 Edit Employee.....	30
Fig.6.7 View Asset.....	31
Fig.6.8 Add Asset.....	32
Fig.6.9 Category list.....	32
Fig.6.10 Add Category .....	33

Fig.6.11 Visitor List .....	33
Fig.6.12 Employee Login .....	34
Fig.6.13 EmployeePage .....	35
Fig.6.14 Visitor Form.....,	35
Fig.6.15 QR Code .....	36



## LIST OF TABLES

Table.3.1 Roles and Responsibilities .....	12
Table.3.2 Time Line Chart (Day Wise) .....	12
Table.7.1 Test Case .....	40

## LISTOFABBREVIATION

HTML - Hypertextmarkuplanguage

CSS - Cascading Style Sheet

PHP - HypertextPreprocessor

## TABLE OF CONTENT

Acknowledgment .....	i
Abstract .....	ii
List of Figures .....	iii
List of Tables .....	v
List of Abbreviation .....	vi
Table of Contents .....	vii
<b>Chapter 1 Overview of the company .....</b>	<b>1</b>
1.1 History .....	2
1.2 Vision .....	2
1.3 Organizational Chart .....	2
1.4 Services .....	3
<b>Chapter 2 Layout of Production .....</b>	<b>4</b>
2.1 Project Scheduling .....	4
2.2 Project Development Approach .....	4
2.2.1 Incremental Design Model .....	4
<b>Chapter 3 Introduction to Internship .....</b>	<b>7</b>
3.1 Internship Summary .....	7
3.2 Purpose .....	7
3.3 Objective .....	7
3.4 Scope .....	7
3.5 Technology and Literature Review .....	8
3.5.1 Tools .....	8
3.5.2 Technology .....	8
3.6 Internship Planning .....	9
3.6.1 Internship Development Approach and Justification .....	10
3.6.2 Internship Development Approach and Justification .....	10
3.6.3 Roles and Responsibility .....	11
3.7 Technology and Literature Review .....	11
<b>Chapter 4 System Analysis .....</b>	<b>12</b>

4.1 StudyofCurrentSystemSystem .....	12
4.2 ProblemsandWeaknessesofTheCurrentSystem .....	12
4.3 RequirementsofTheNewSystem .....	12
4.4 System Feasibility .....	12
4.4.1 TechnicalFeasibility .....	13
4.4.2 BehavioralFeasibility .....	13
4.4.3 ScheduleFeasibility .....	13
4.4.4 EconomicFeasibility .....	13
4.5 ProcessInNew System .....	14
4.6 FeaturesofNewSystem.....	14
4.7 RequirementValidation.....	14
4.8 HardwareandSoftwareRequirements.....	15
4.8.1 Hardware.....	15
4.8.2 Software .....	15
<b>Chapter5 System Design.....</b>	<b>16</b>
5.1 SystemDesign &Methodology .....	16
5.1.1 Admin .....	16
5.1.2 Client.....	16
5.2 DatabaseDesign.....	16
5.3 UseCaseDiagram.....	20
5.4 ActivityDiagram.....	22
5.5 E R Diagram .....	23
<b>Chapter6 Implementation .....</b>	<b>24</b>
6.1 TechnologiesandImplementation Environment .....	24
6.1.1LanguagesAreUsed.....	24
6.1.2DataConnectivity .....	24
6.2 ModuleSpecification.....	25
6.2.1 Admin .....	25
6.2.2 Client.....	25
6.3 Results/Outcomes .....	26
6.3.1 Admin Panel.....	26
6.3.2 Employee-SidePanel .....	28
6.4 ResultAnalysis .....	34
6.4.1 Interface .....	34
6.4.2 ParallelOperation .....	34
6.4.3 ReliabilityRequirements.....	34
6.4.4 RegularitiesPolicy.....	34
6.4.5 HardwareLimitation.....	34

6.4.6 Advantages .....	34
6.4.7 Limitations/Disadvantages .....	35
<b>Chapter7 Testing...</b> .....	<b>4</b>
7.1 TestingPlan .....	36
7.2 testing Strategy.....	36
7.2.1 TestCase .....	37
<b>Chapter8 Conclusionand Discussion.....</b>	<b>4</b>
8.1 OverallAnalysisofProject Viabilities.....	38
8.2 Problems Encountered.....	38
8.2.1 DifficultyCommunicating .....	38
8.2.2 StruggleUnderstanding Things.....	38
8.3 SummaryofInternship .....	38
8.4 LimitationandFutureEnhancement... ..	39
8.4.1 Limitation .....	39
8.4.2 FutureEnhancement .....	39
<b>REFERENCES .....</b>	<b>40</b>

## CHAPTER 1: OVERVIEW OF THE COMPANY



**CompanyName** : BHARTI SOFT TECH PVT LTD

**Address** : 261, Makarpura GIDC, Makarpura, Vadodara, Gujarat(390010).

**Contact Number** : 02656544312

**E-mail** : akeshesh,panchal@bcssarl.com

## 1.1 HISTORY

**Bharti Soft Tech Pvt Ltd** is a global technology and process driven software solutions company offering customer centric solutions. With knowledge and experience of the entire IT lifecycle, we help enterprises streamline core IT processes and augment their competitive advantage. Our Agile tools and DevOps processes create outcome-based and ROI-driven solutions for technology teams and enterprises.

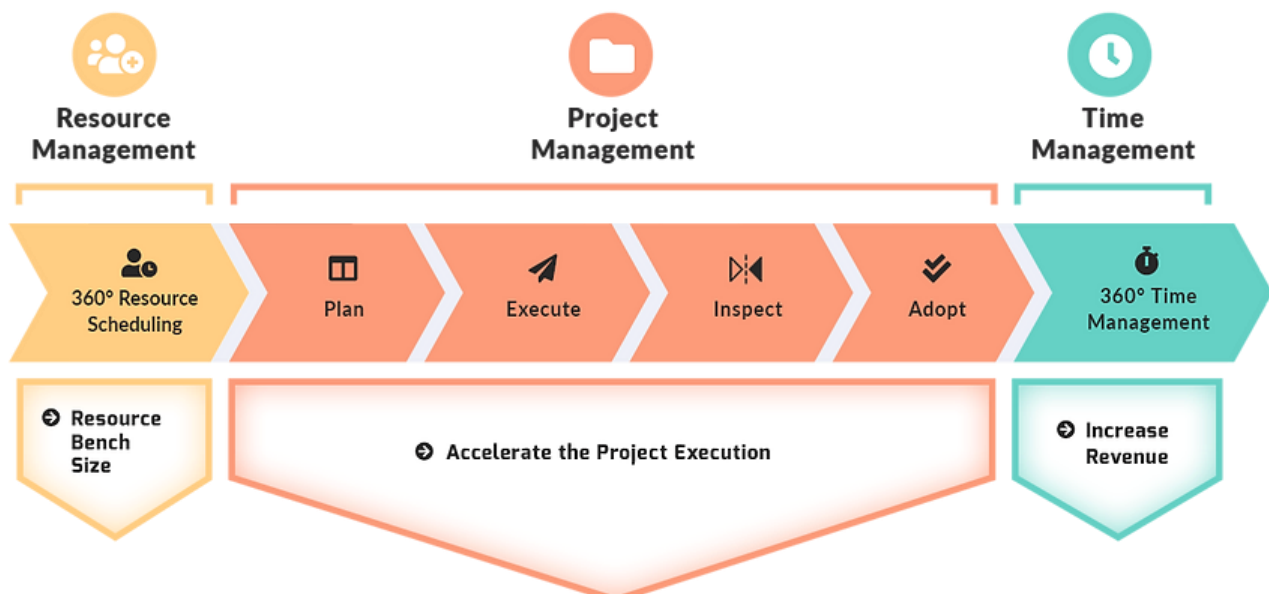
Drawing on the talents and insights of our people in offices around the world, we combine unparalleled experience, comprehensive capabilities across many industries and business processes, and fresh thinking to generate innovative solutions. BSPL offers superior quality and cost effective business solutions, employing cutting-edge technologies and the most exacting of quality standards.

Headquartered in Paris, Europe with two delivery centres in India and operations in U.S., Europe and Asia, we combine local presence and accountability with a global delivery capability.

## 1.2 VISION

Our vision is to provide our customers with the best unique software solutions. For that we do complete research on the needs of the customer and target audience before starting the project. We are determined in providing unique user experiences and delivering perfectly functional products while still maintaining proper coding ethics. We are continuously upgrading ourselves with the latest technologies and trends to meet demands of the market.

## 1.3 ORGANIZATIONAL CHART



## 1.4 SERVICES

- Technology
- Hospitality
- Real Estate
- Travel and Tourism
- Retail and eCommerce
- Media and Publishing



## CHAPTER 2: LAYOUT OF PRODUCTION

### 2.1 PROJECT SCHEDULING

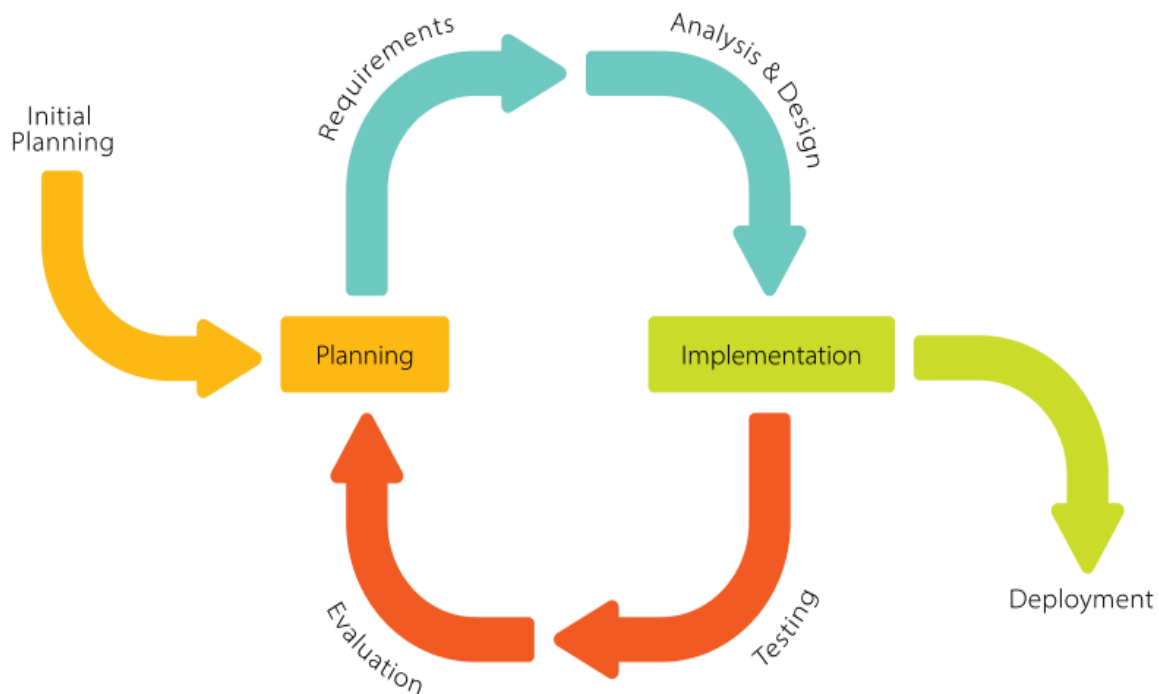
- Project Scheduling is the culmination of a planning activity that is a primary component of so Web Application project management.
- When combined with estimation methods and any risk analysis, scheduling establishes a road map for the project management.
- Scheduling begins with the process composition. The characteristics of the project are used to adapt an appropriate task set for the work to be done.
- The task network is used to compute the critical project path, timeline chart, and a variety of project information.
- When creating a Web Application project schedule, the planner begins with a set of tasks. If automated tools are used, the work breakdown is input as a task network or task outline. Effort, duration, and start date are then input for each task. In addition, tasks may be assigned to specific individuals.
- As a consequence of this input, a timeline chart, also called a Gantt chart is generated. A Timeline Chart can be developed for the entire project. Timeline Charts depict a part of a web application project schedule
- All project tasks are listed in the left-hand column. The horizontal bars indicate the duration of each task. When multiple bars occur at the same time on the calendar, task concurrency is implied. The diamonds indicate milestones, which indicate the place where our project reaches.

### 2.2 PROJECT DEVELOPMENT APPROACH

#### 2.2.1 Incremental Model Design

The incremental build model is a method of software development where the model is designed, implemented and tested incrementally (a little more is added each time) until the product is finished. It involves both development and maintenance. The product is defined as finished when it satisfies all of its requirements. This model combines the elements of the waterfall model with the iterative philosophy of prototyping

Following is the pictorial representation of Iterative and Incremental model:



**Fig.2.1 Incremental Model**

Iterative and Incremental development is a combination of both iterative design or iterative method and incremental build model for development. "During software development, more than one iteration of the software development cycle may be in progress at the same time." and "This process may be described as an "evolutionary acquisition" or "incremental build" approach." In the incremental model the whole requirement is divided into various builds. During each iteration, the development module goes through the requirements, design, implementation and testing phases. Each subsequent release of the module adds function to the previous release. The process continues till the complete system is ready as per the requirement.

The key to successful use of an iterative software development life-cycle is rigorous validation of requirements, and verification & testing of each version of the software against those requirements within each cycle of the model. As the software evolves through successive cycles, tests have to be repeated and extended to verify each version of the software.

### Iterative Model Application

Like other SDLC models, Iterative and incremental development has some specific applications in the software industry. This model is most often used in the following scenarios:

Requirements of the complete system are clearly defined and understood.

- Major requirements must be defined; however, some functionalities or requested enhancements may evolve with time.
- There is a time constraint.
- A new technology is being used and is being learned by the development team while working on the project.
- Resources with needed skill sets are not available and are planned to be used on a contract basis for specific iterations.
- There are some high-risk features and goals which may change in the future.
- Integration and Testing: All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
- Deployment of system: Once the functional and non-functional testing is done, the product is deployed in the customer environment or released into the market.
- Maintenance: There are some issues which come up in the client environment. To fix those issues patches are released. Also, to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

## CHAPTER3:INTRODUCTIONTOINTERNSHIP

### 3.1 INTERNSHIPSUMMARY

During my internship with the Visitor Management System, I engaged in comprehensive analysis, design, and development processes, contributing to the creation of efficient visitor management solutions using React.js. Collaborating with cross-functional teams, I participated in system architecture design, feature implementation, and quality assurance activities, ensuring seamless user experiences. By leveraging React.js along with other technologies such as HTML, CSS, and backend frameworks like Node.js, I played a key role in developing features including visitor registration, check-in/check-out procedures, and administrative functionalities. Through effective communication and teamwork, I ensured project alignment with objectives and timelines, while continuously seeking learning opportunities to enhance my technical skills and problem-solving abilities. This internship not only provided practical insights into software development processes but also prepared me for future roles in the technology industry.

### 3.2 PURPOSE

The purpose of visitor management is multifaceted, encompassing several key objectives. Firstly, it aims to enhance security within an organization by accurately tracking and monitoring visitor activity, thereby preventing unauthorized access and safeguarding employees, assets, and proprietary information. Additionally, visitor management systems ensure compliance with regulatory requirements related to visitor access and security, maintaining detailed records and adhering to data privacy standards. Moreover, these systems streamline the visitor registration process, automating data entry, generating visitor badges or QR codes, and providing self-service kiosks for expedited check-in. By offering a seamless and professional experience, organizations can improve the overall visitor experience, reduce wait times, and minimize administrative hassles. Furthermore, visitor management systems play a crucial role in emergency preparedness by facilitating efficient evacuation procedures and ensuring the safety and accountability of individuals within the premises. Lastly, by capturing and analyzing visitor data, organizations can gain valuable insights into visitor patterns, identify areas for improvement, and make informed decisions to optimize resource allocation and security measures.

### 3.3 OBJECTIVE

OurOBJECTIVEis simply to certify enhancement for all services we provide to our clients as we have an uncanny ability to convert ideas to things, and eventually reality, which is the backbone to success!!

- Enhance the security within the organization
- Ensure compliance with regulatory requirements
- Streamline visitor registration processes
- Improve the overall visitor experience
- Capture and analyze visitor data for insights and decision-making

### 3.4 SCOPE

The scope of the Visitor Management System with QR code scan and administrative dashboard extends to encompass all aspects of visitor, employee, and asset management within the organization. It includes functionalities such as visitor registration, tracking, and reporting, along with features for employee access to personal information and scheduling. The administrative dashboard provides oversight of the entire system, allowing for management of employee profiles, generation of reports, and implementation of security measures. Additionally, the system facilitates asset management by tracking company assets and maintaining detailed records. Integration with existing systems and customization options ensure seamless communication and alignment with organizational needs. Overall, the scope encompasses a comprehensive solution designed to enhance security, efficiency, and accountability within the organization.

### 3.5 TECHNOLOGY AND LITERATURE REVIEW

#### 3.5.1 TOOL

##### 3.5.1.1 Visual Studio Code

Visual Studio Code is a free, open-source code editor made by Microsoft for Windows, Linux, and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

##### 3.5.1.2 XAMPP

XAMPP is one of the widely used cross-platform web servers, which helps developers to create and test their programs on a local webserver. It was developed by Apache Friends, and its native source code can be revised or modified by the audience. It consists of Apache HTTP Server, MariaDB, and interpreters for the different programming languages like PHP and Perl.

#### 3.5.2 TECHNOLOGY

##### 3.5.2.1 HTML5

- HTML is the standard markup language for creating Web pages.
- It is a very easy and simple language. It can be easily understood and modified.
- It is very easy to make an effective presentation with HTML because it has a lot of formatting tags.
- It is a markup language, so it provides a flexible way to design web pages along with the text.

- It describes the structure of a Web page.
- It consists of a series of elements.

### 3.5.2.2 CSS3

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of content and presentation, including layout, colors, and fonts.[3] This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

### 3.5.2.3 BOOTSTRAP

Bootstrap is a free open-source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs. As a framework, Bootstrap includes the basics for responsive web development, so developers only need to insert the code into a predefined grid system. The Bootstrap framework is built on Hypertext Markup Language (HTML), cascading style sheets (CSS) and JavaScript. Web developers using Bootstrap can build websites much faster without spending time worrying about basic commands and functions.

### 3.5.2.4 PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easy to add functionality to web pages without needing to call external files for data.

### 3.5.2.5 JAVASCRIPT

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side scripts to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

### 3.5.2.6 REACT JS

React.js is a JavaScript library used for building dynamic user interfaces, favored for its component-based architecture. By breaking down the UI into reusable components, React simplifies development and maintenance. Its virtual DOM efficiently updates the actual DOM, enhancing performance. With support for server-side rendering and a vast ecosystem of tools, React enables the creation of fast, responsive web applications with ease.

### **3.5.2.7 NODE JS**

Node.js is a runtime environment that allows developers to run JavaScript code outside of a web browser. It's commonly used for building scalable network applications, such as web servers and APIs. With its event-driven architecture and non-blocking I/O model, Node.js enables high-performance applications.

### **3.5.2.8 MATERIAL UI**

Material-UI is a popular React UI framework that provides pre-designed components following Google's Material Design guidelines. It simplifies the creation of visually appealing and consistent user interfaces in React applications, offering a wide range of customizable components and styles.

### **3.5.2.9 MYSQL**

MySQL is an open-source relational database management system widely used in web development. It provides a robust and scalable platform for storing and retrieving structured data, making it suitable for a variety of applications, from small websites to large-scale enterprise systems. When combined with Node.js and Sequelize, MySQL becomes part of a powerful stack for building data-driven web applications.

### **3.5.2.10 SEQUELIZE**

Sequelize is an ORM (Object-Relational Mapping) library for Node.js that simplifies database interactions by abstracting SQL queries into JavaScript methods. It supports multiple database systems, including MySQL, PostgreSQL, and SQLite, allowing developers to work with databases using familiar JavaScript syntax and models.

## **3.6 INTERNSHIPPLANNING**

- Project planning is part of project management, which relates to using schedules such as Gantt charts to plan and report progress within the project environment.
- Initially, the project scope is defined and the appropriate methods for completing the project are determined. Following this step, the durations for the various tasks necessary to complete the work are listed and grouped into a work breakdown structure.
- Project planning is often used to organize different areas of a project, including project plans,

workloads, and the management of teams and individuals.



### 3.6.1 Internship Development Approach and Justification

First of all we learn about different technologies that we are going to use in our internship project. Then we started coding and designing part of our project. After that we test the project and make some modifications according to their needs. A timely review of the work's progress was conducted by the industry mentor.

Planning before any activity is very much important. And if it is planned nicely, then success is guaranteed. Project Management System has six major modules of Admin, Manage Application, Test Management, Process Management, Manage Comment, Reports. We analyzed the overall complexity of each of these modules and it was found that the project will require approximately 14 weeks to complete, so we planned accordingly. We decided to follow the SDLC i.e. Software Development Life Cycle while planning various phases of our project. This method consists of the following activities:

1. Determination of system requirements
2. System Analysis
3. Design of system
4. Development of website
5. Testing
6. Implementation and Evaluation

### 3.6.2 Internship Efforts and Time, Cost Estimation

The estimated time, efforts and expenses for the internship were determined on a monthly basis. Hours worked each day are included. Interns have to work a minimum 8 hours every day. The job was completed as part of an internship, and the interns are not paid.







### 3.6.3 Roles and Responsibilities

**Table 3.1 Roles and Responsibilities Table**

Name	Role				
	Analysis	Designing	Coding	Testing	Documentation
Rishi	✓	✓	✓	✓	✓

### 3.7 Internship Scheduling

**Table 3.2 Time-Line Chart (Day-Wise)**

DEVELOPMENT PHASE	90 DAYS					DURATION
	0-20	21-40	41-60	61-80	81-90	
Requirements Gathering & Analysis						5
Designing						8
Coding						46
Testing						3
Implementation						4
Documentation						Parallel
Total Days	90 Days					

## **CHAPTER4:SYSTEMANALYSIS**

### **4.1 STUDYOFTHECURRENTSYSTEM SYSTEM**

Thecurrent system works manuallyandit is verymuch time consuming

- Usersmust havebasicknowledgeof Computers&Internet.
- Usersshouldunderstandtheuseofall modules.
- Usersshould beawareof how to usethe system.
- Userscan easilyinteractwiththeproposed system.
- User should bealso beingawareof therunningprocess of thesystem

### **4.2 PROBLEMSANDWEAKNESSESOFTHECURRENTSYSTEM**

- ItrequiresanInternet connection.
- Forgettingotrackscheduleorbudgetchanges.
- Havingmoreguestattendeesthanyouhave planned.

### **4.3 REQUIREMENTOFTHENEWSYSTEM**

A Visitor Management System must fulfill several key requirements to efficiently manage visitor processes within an organization. This includes enabling seamless visitor registration, check-in/check-out procedures, and real-time tracking of visitor movements. The system should feature an intuitive administrative dashboard for managing visitor information, as well as security features like badge printing and photo capture to ensure safety and compliance. Integration with existing systems, customization options, and scalability are essential for adapting to organizational needs and future growth. Additionally, the system should prioritize user-friendly interfaces, mobile accessibility, and compliance with data privacy regulations to enhance usability and security.

### **4.4 SYSTEMFEASIBILITY**

Whenanewprojectisproposed,itnormallygoestroughafeasibilityassessment.Feasibility study is carried out to determine whether the proposed system is possible to develop with available resources and what should be the cost consideration. The facts considered in the feasibility analysis were.

- TechnicalFeasibility
- EconomicFeasibility

#### 4.4.1 Technical Feasibility

Technical Feasibility deals with the hardware as well as software requirements. Technology is not a constraint to type system development. We have to find out whether the necessary technology, and the proposed equipment have the capacity to hold the data, which is used in the project, should be checked to carry out this technical feasibility.

The technical feasibility issues usually raised during the feasibility stage of investigation include these

- This software is running in Windows 2000 Operating System, which can be easily installed.
- The hardware required is Pentium-based server.
- The system can be expanded.

This feasibility study presents tangible and intangible benefits from the project by comparing the development and operational cost. The technique of cost-benefit analysis is often used as a basis for assessing economic feasibility. This system needs some more initial investment than the existing system, but it can be justifiable that it will improve quality of service.

#### 4.4.2 Behavioral Feasibility

This analysis involves how it will work when it is installed and the assessment of the managerial environment in which it is implemented. People are inherently resistant to change and computers have been known to facilitate change. The new proposed system is very much useful to the users and therefore it will accept a broad audience from around the world.

#### 4.4.3 Schedule Feasibility

In Schedule Feasibility Study mainly timelines/deadlines are analyzed for proposed projects which include how many time teams will take to complete the final project which has a great impact on the organization as the purpose of project may fail if it can't be completed on time.

#### 4.4.4 Economic Feasibility

A system that can be developed and that will be used if installed must still be a good investment for the organization. Financial benefits must equal or exceed the costs. The financial and economic issues raised are as under:

- No extra cost is incurred for developing the system.
- No extra cost for the modification or addition of software and hardware will require in case of future expansion of the current system.

- The company will be a profit if they implement this system because of the cost of implementation is nominal as compared to the profit they will be earning in terms of efficiency

#### **4.5 PROCESSINNEW SYSTEM:**

- Visitor Management System encompasses the methodical approach to overseeing and facilitating the management of visitors within a given space or establishment. This includes the efficient handling of check-ins, monitoring visitor movements, and ensuring a secure and seamless experience for all stakeholders involved.
- Visitors can conveniently access our Visitor Management System through our designated platform or application.
- The process of managing visitors entails administrative capabilities, allowing authorized personnel to perform tasks such as check-in, check-out, record maintenance, and data updates.
- Administrators possess the authority to not only initiate the booking process but also to modify, remove, and amend all records within the system, ensuring accurate and up-to-date information at all times.

#### **4.6 FEATURESOFNEWSYSTEM:**

- Usability: The interface should use terms and concepts, which are drawn from the experience of people who will make most of the system.
- Efficiency: The portal must provide easy and fast access without consuming more time.
- Readability: Users should never be surprised by the behavior of the system and it should also provide meaningful feedback when an error occurs so that the user can recover from the error.
- Accuracy: The user should require that data obtained from the database and stored in the database must be accurate.
- The user wants the data stored in the database must be secured and cannot be accessed by unauthorized users.
- Maintainability: Users want that the system should be maintained easily means that if there are some changes required in the system that can be done easily.

#### **4.7 REQUIREMENT VALIDATION:**

- It is okay with not knowing the computer. As the system is paper based.
- The risk of corrupted data is much less.
- Data loss is less of a risk, particularly if records are stored in a fire-proof environment. Problems with duplicate copies of the same records are generally avoided.

- The process is simplified as you don't need to be familiar with computer operation

## **4.8 HARDWAREANDSOFTWAREREQUIREMENTS:**

### **4.8.1 Hardware**

#### **4.8.1.1 ClientSide**

- (Forbestperformance)AnyGUI-basedterminalhavingatleast800\*600256-colors displays.
- 1024X76832-bitrecommended.

#### **4.8.1.2 ServerSide**

- Supportedarchitecture:x84,x64(WindowsServer 2010)
- RAM: 96MB(256MB Recommended)
- 400MHzCPU (1.0GHz Recommended)
- 1GBof HardDisk space.

### **4.8.2 Software**

- FrontEndTool: -VisualStudio
- BackEndTool: -MySQL7.1.6
- Server:- Xampp
- Browser:-Aboveinternetexplorer7,Microsoftedge,safari,chrome

## **CHAPTER5:SYSTEMDESIGN**

### **5.1 SYSTEMDESIGN&METHODOLOGY:**

#### **5.1.1 Admin**

- ItcanLoginintoSystem.
- ItcanmanageEmployees.
- ItcanmanageAssets.
- ItcanmanageCategory.
- Itcanmanage Visitors.
- Logout From the System

#### **5.1.2 Visitor**

- It will Scan QR Code
- Fill in the Registration Form

#### **5.1.3 Employee**

- It can Login into the System
- It Can View and Edit Details
- Logout From the System

### **5.2 DATABASEDESIGN:**



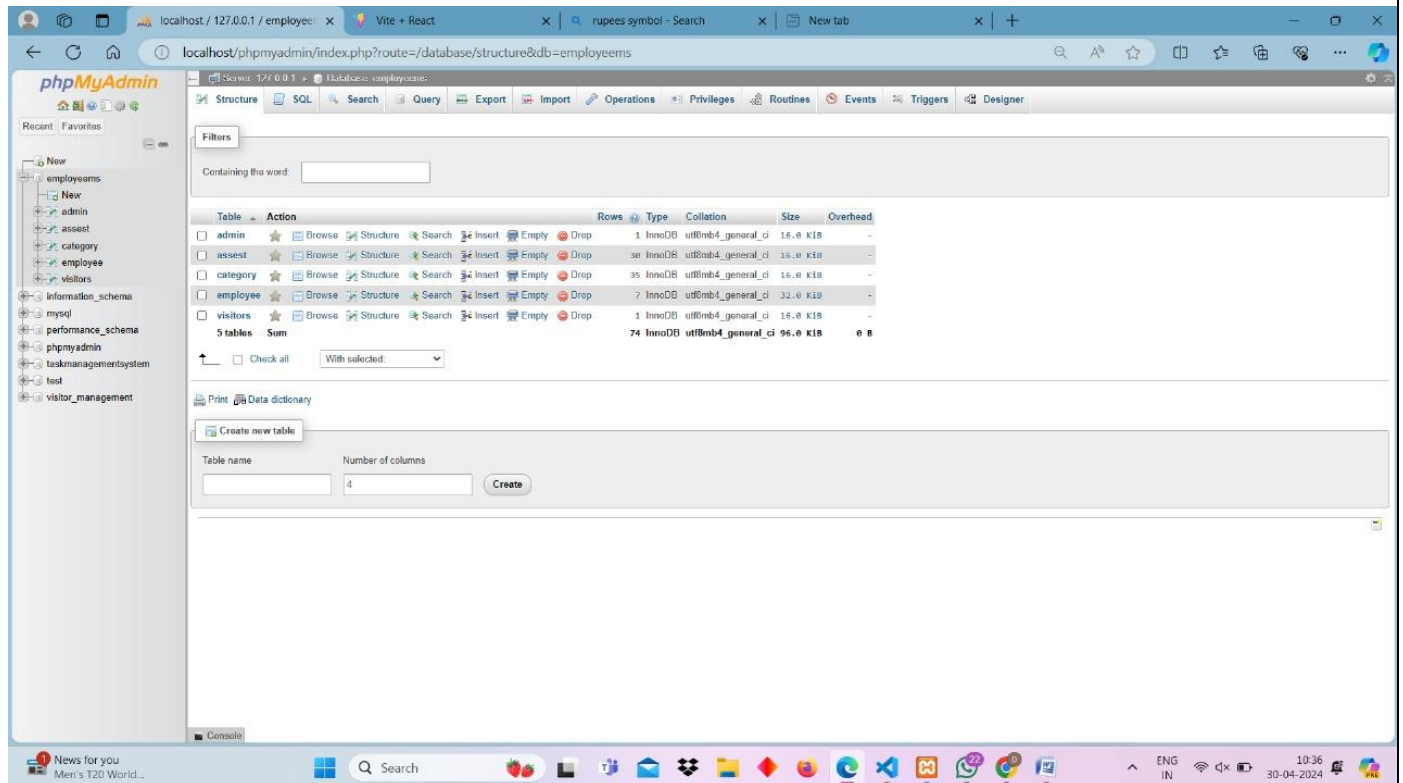


Fig.5.1 Visitor Management Database



### Fig.5.3AssetsTable

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds)

```
SELECT * FROM `visitors`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id	firstName	lastName	dob	gender	email	contactNo	address	resume	image
<input type="checkbox"/>	1	Akashay	Patel	2024-04-25	male	akashay@gmail.com	34789997123	1234 main road makarpura	resume_1712485497566.pdf	image_1712485497079.jpg

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Fig.5.4 Visitor Table

Showing rows 0 - 24 (25 total, Query took 0.0006 seconds)

```
SELECT * FROM `category`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	id	name
<input type="checkbox"/>	1	IT
<input type="checkbox"/>	2	civil
<input type="checkbox"/>	3	mech
<input type="checkbox"/>	4	electrical
<input type="checkbox"/>	5	Computer
<input type="checkbox"/>	6	Software Development
<input type="checkbox"/>	7	Web Development
<input type="checkbox"/>	8	Mobile App Development
<input type="checkbox"/>	9	UI/UX Design
<input type="checkbox"/>	10	Data Analytics
<input type="checkbox"/>	11	Artificial Intelligence
<input type="checkbox"/>	12	Machine Learning
<input type="checkbox"/>	13	Cybersecurity
<input type="checkbox"/>	14	Cloud Computing
<input type="checkbox"/>	15	DevOps
<input type="checkbox"/>	16	Blockchain Technology
<input type="checkbox"/>	17	Internet of Things (IoT)
<input type="checkbox"/>	18	Big Data
<input type="checkbox"/>	19	Virtual Reality (VR)
<input type="checkbox"/>	20	Augmented Reality (AR)
<input type="checkbox"/>	21	Digital Marketing
<input type="checkbox"/>	22	E-commerce Solutions

Fig.5.4 Category Table

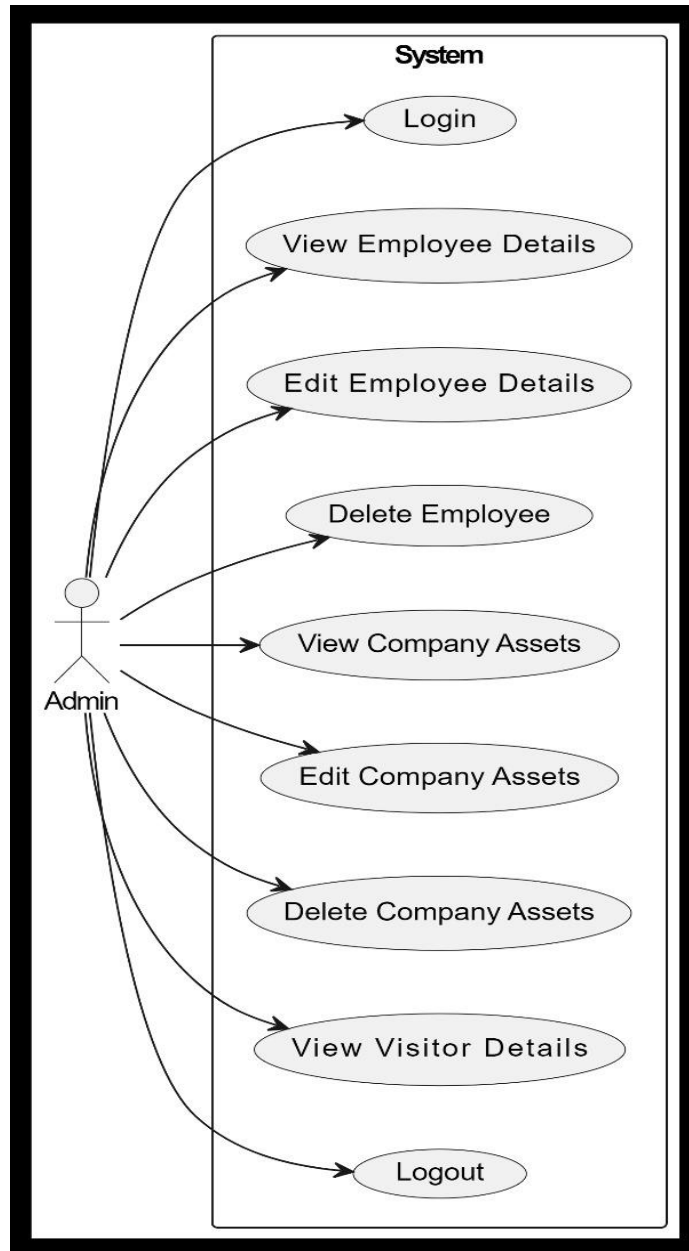
The screenshot shows the phpMyAdmin interface with the 'employee' table selected. The table contains 7 rows of data. The interface includes a sidebar with database structure, a top navigation bar, and a bottom status bar.

id	name	email	password	salary	address	image	category_id
3	Rishi	rishi@gmail.com	\$2b\$10\$upky8vmpzUqMbpITM0neN1PoQPJ70XF0cVzPUjPqL...	25000	28-A Rambaug Society Makarpura	image_1712480210999.jpg	3
4	Harsh	harsh@gmail.com	\$2b\$10\$ZcZBNl8StenJRLcAmngk v74H1pdPJ8QNg0By0m...	6000	Oda, Gujarat	image_1712554541546.jpg	0
5	Sanmit Suthar	sanmit@gmail.com	\$2b\$10\$YzTLTmoCX4MMm76p5npYunacz4y1PoPM5SBEJY74k...	5000	Ghandhinagar, Gujarat	image_1714311556372.jpg	0
6	Priyanshu Mahi	Priyanshu@gmail.com	\$2b\$10\$ gQaUnkDz6pVtoX8vGKOthumvniP8S8uJ7ABcpl...	5000	Vadodara	image_1714311682751.jpg	0
7	Daxesh b Tadi	daxesh@gmail.com	\$2b\$10\$vrzm9PxxjWJ ppEPV4H06ZQ7KNNndnzZ0w9N7oh6P...	5000	Vadodara	image_1714313131440.jpg	0
8	Aman	aman@gmail.com	\$2b\$10\$5vKUHDrL5yW0RRZGU5TgPofwRA1Z6Be4GBDwDyLc...	3000	Gotri	image_1714313198127.jpg	4
9	akash	akash@gmail.com	\$2b\$10\$7 PILJansNmUc1M9S8VhuKE9BZk8QJ7 XV718ZLPE...	6000	Delhi	image_1714313265899.jpg	3

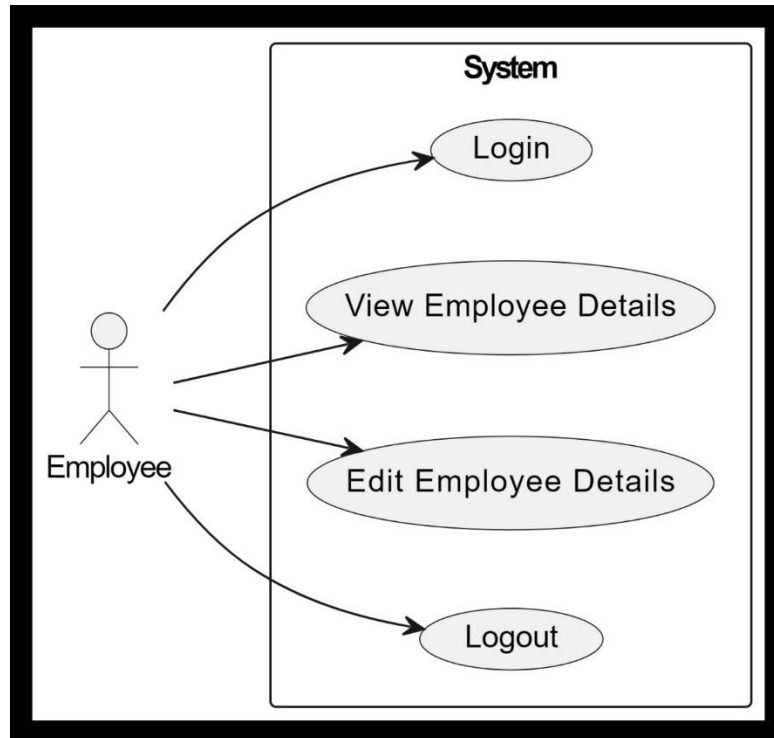
Fig.5.4Employee Table

### 5.3 USECASEDIAGRAM

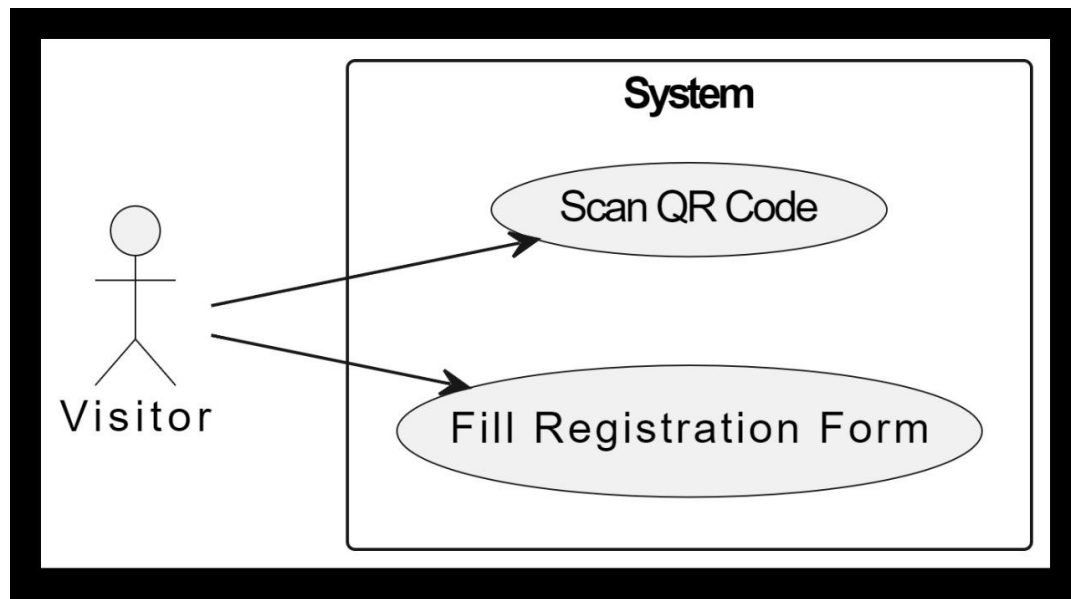
A use case diagram is a graphical depiction of a user's possible interactions with a system.



**Fig.5.7** Use Case(Admin)



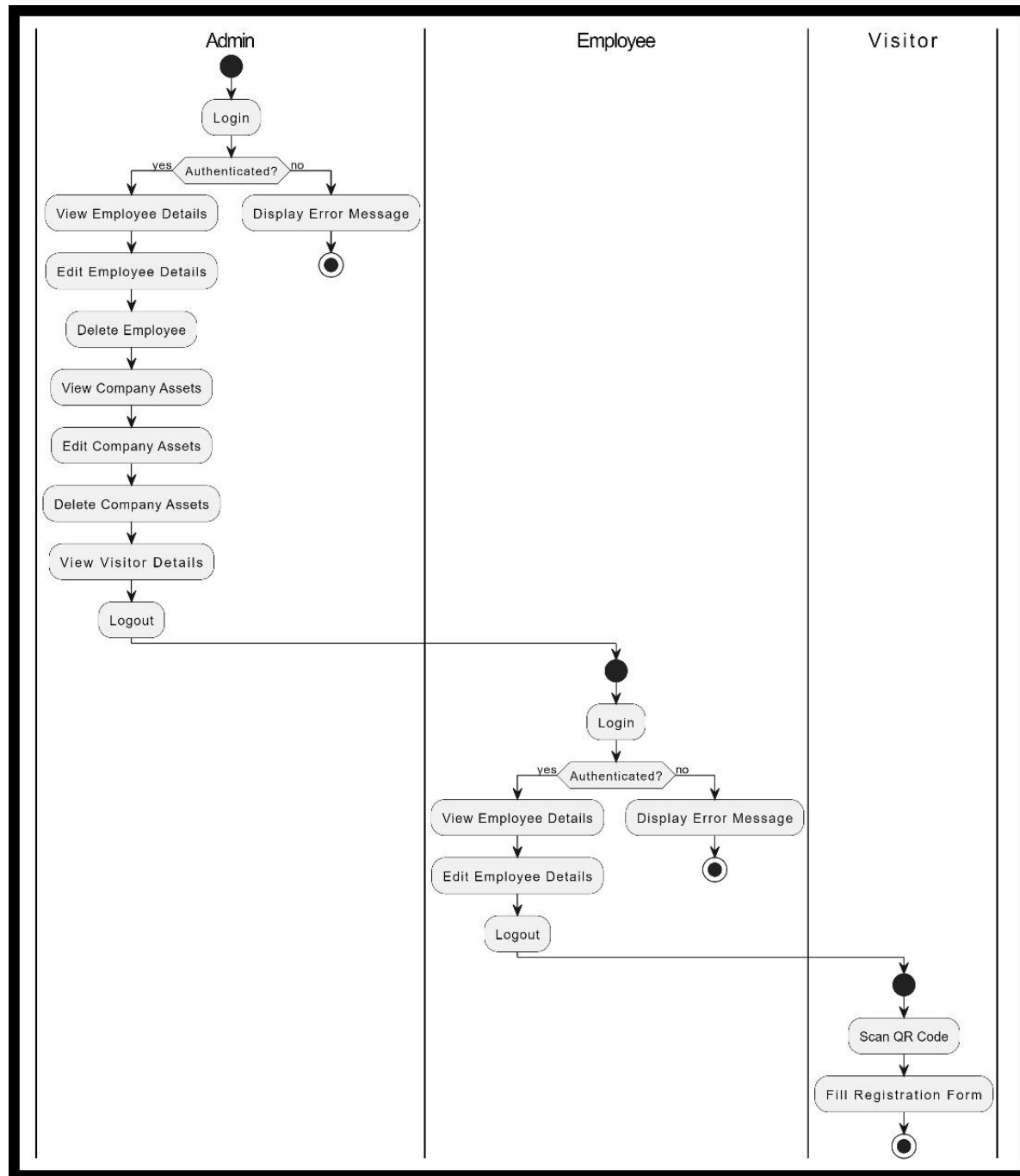
**Fig.5.8Use Case(Client)**



**Fig.5.8**Use Case(Visitor)

## 5.4 ACTIVITYDIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency

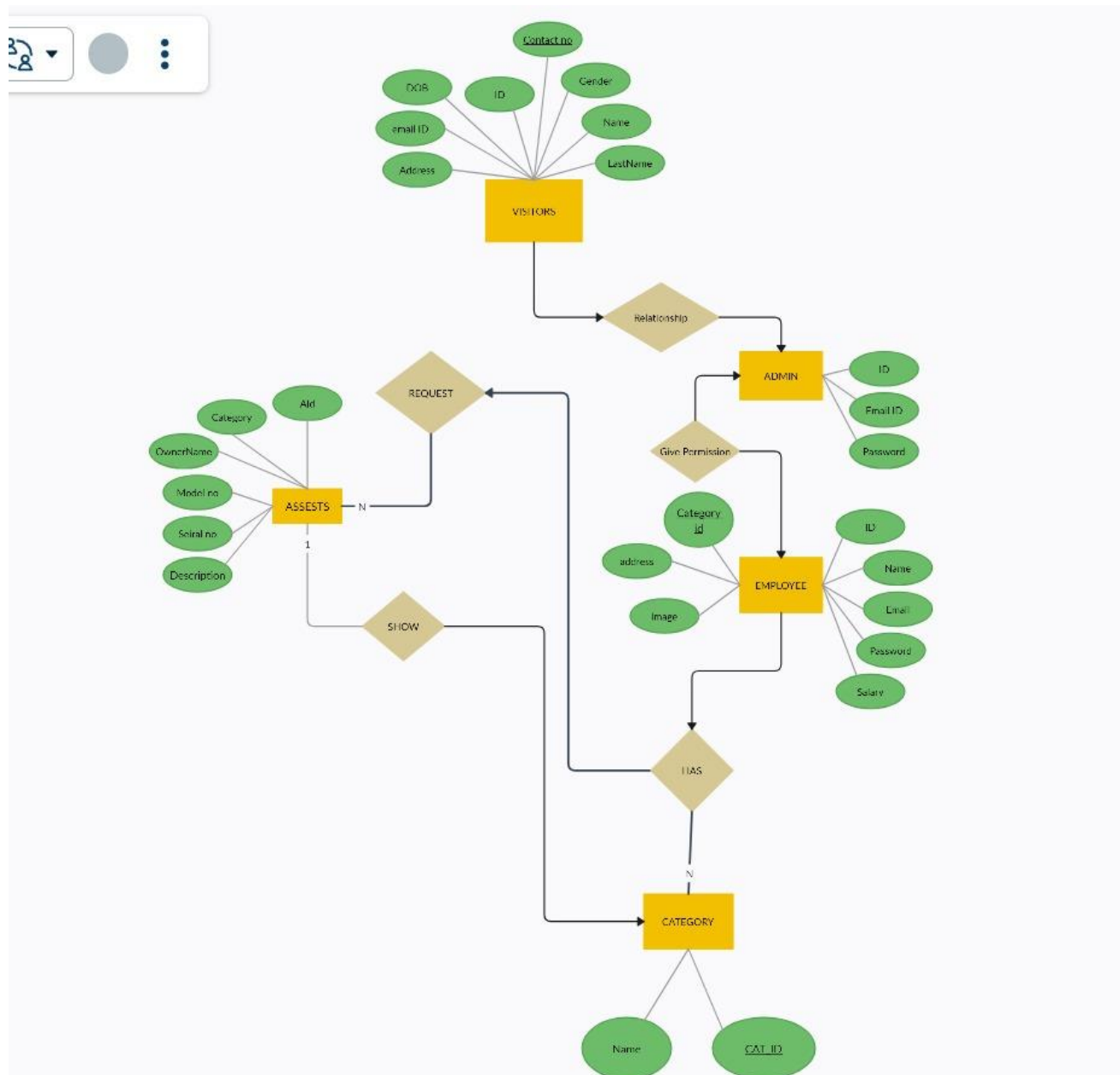


**Fig.5.9 Activity Diagram**



## 5.5 ER DIAGRAM

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entitysets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.



**Fig.5.10ERDiagram**

## CHAPTER 6: IMPLEMENTATION

### 6.1. TECHNOLOGIES & IMPLEMENTATION ENVIRONMENT

- Bootstrap is a front-end framework that provides a set of pre-built CSS and JavaScript components for creating responsive and mobile-first web pages, while PHP is a server-side scripting language used for creating dynamic web pages.
- Bootstrap can be used with PHP to build dynamic web pages by integrating PHP code with HTML and Bootstrap's CSS and JavaScript components. Bootstrap and PHP can be used together to create dynamic, responsive websites with great user experience.
- You can use PHP to handle server-side processing and database and Bootstrap to handle the presentation layer and user interface. You must include Bootstrap's CSS and JavaScript files and use the appropriate Bootstrap classes and components in your code.
- PHP Bootstrap code implies making a bootstrapper that handles all the dynamic requests made to a server and applies the MVC system so that in the future you can change the functionality for each unique application or component without changing the whole. Bootstrap helps you to design websites faster and easier, including HTML and CSS-based design templates.
- PHP Bootstrap templates make it less complicated for clients to construct complex and compelling web apps. PHP requires a local server to run PHP code.

#### 6.1.1 Languages are Used

- HTML5
- CSS3
- BOOTSTRAP
- JAVASCRIPT
- REACT JS
- NODE JS
- MATERIAL UI

#### 6.1.2 Data Connectivity

- PHP Database Connection
- MySQL Server

## **6.2. MODULE SPECIFICATION**

The Visitor Management System module is designed to streamline visitor management within the campus environment. It offers features such as visitor registration with unique identifiers, efficient check-in and check-out processes, user-friendly dashboards for both visitors and administrators, integration with existing systems, robust security measures, analytics and reporting capabilities, and customization options. This module simplifies the event management process, ensuring security, efficiency, and satisfaction for all stakeholders while providing valuable data for real estate and future planning decisions.

### **6.2.1 Admin**

- SecureLogin
- Dashboard
- Manageand ViewAssets
- Manageand ViewEmployees
- ManageandViewVisitors
- ViewEnquiry

### **6.2.2 Visitors**

- Scan QR Code
- Fill the Registration Form
- Assistance

### **6.2.3 Employee**

- Secure Login
- View Details
- Edit Details
- logout

## 6.3 RESULT/OUTCOMES

### 6.3.1 Admin Panel

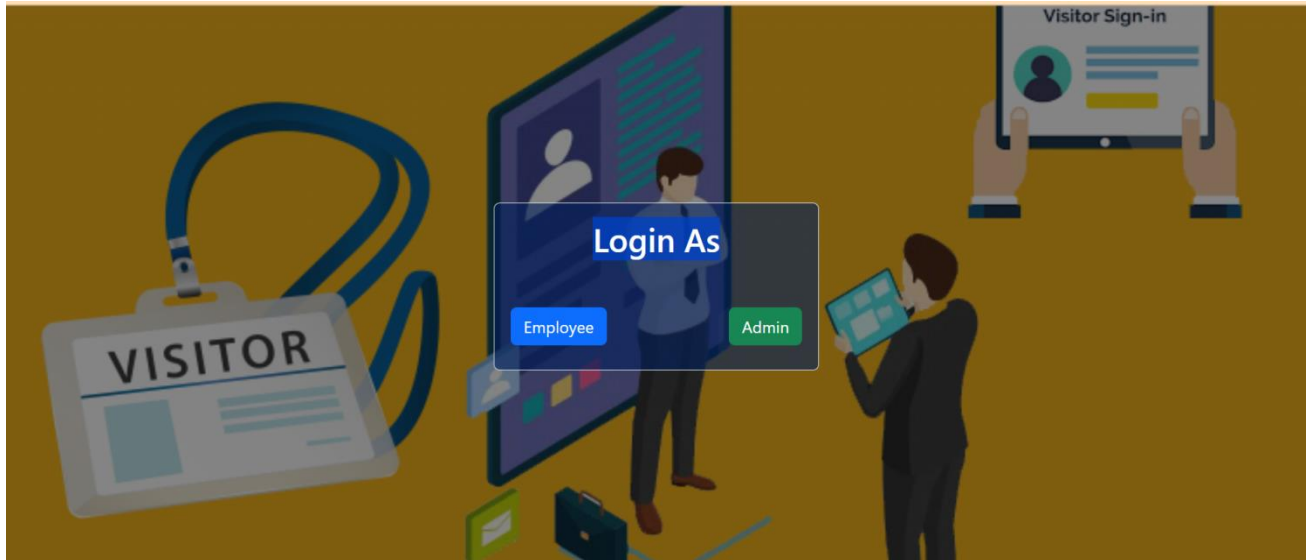


Fig.6.1 Home Page

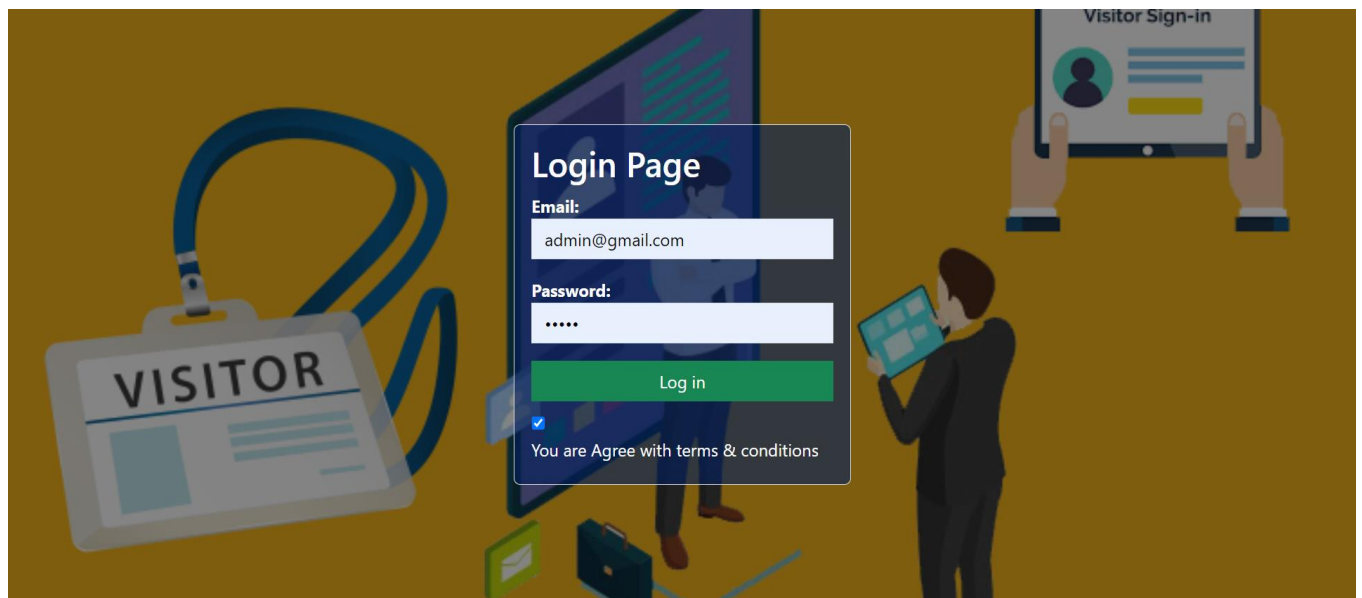


Fig.6.2 Admin Login

**Admin Panel**

- Dashboard
- Manage Employees
- Assests
- visitors
- Category
- Profile
- Logout

### Visitor Management System

**Admin**


---

Total: 1

**Employee**


---

Total: 3

**Salary**


---

Total: ₹30500

### List of Admins

Email	Action
admin@gmail.com	<a href="#">Edit</a> <a href="#">Delete</a>

Fig.6.3Admin Dashboard

**Admin Panel**

- Dashboard
- Manage Employees
- Assests
- visitors
- Category
- Profile
- Logout

### Visitor Management System

### Employee List

Add Employee




Name	Image	Email	Address	Salary	Action
Daxesh		daxesh@gmail.com	1234 main road makarpura	500	<a href="#">Edit</a> <a href="#">Delete</a>
Rishi		rishi@gmail.com	28-A Rambaug Society Makarpura	25000	<a href="#">Edit</a> <a href="#">Delete</a>
Harsh		harsh@gmail.com	Ode, Gujarat	5000	<a href="#">Edit</a> <a href="#">Delete</a>

Fig.6.4View Employee

The screenshot shows a web browser window with the URL `localhost:5173/dashboard/add_employee`. The page features a dark sidebar on the left with navigation links: Dashboard, Manage Employees, Assests, visitors, Category, Profile, and Logout. The main content area is titled "Add Employee" and contains a form with the following fields: Name (text input), Email (text input), Password (text input, highlighted with a blue border), Salary (text input), Address (text input), Category (dropdown menu showing "IT"), and Select Image (a button labeled "Choose File" and a status "No file chosen"). The browser's taskbar at the bottom shows various application icons and the system clock indicating 00:48:19 on 30-04-2024.

**Fig.6.5 Add Employee**

The screenshot shows a web browser window with the URL `localhost:5173/dashboard/edit_employee/3`. The page features a dark sidebar on the left with navigation links: Admin Panel, Dashboard, Manage Employees, Assests, visitors, Category, Profile, and Logout. The main content area is titled "Visitor Management System" and contains a form titled "Edit Employee" with the following fields: Name (text input with value "Rishi"), Email (text input with value "rishi@gmail.com"), Salary (text input with value "25000"), Address (text input with value "28-A Rambaug Society Makarpura"), and Category (dropdown menu showing "IT"). A blue button labeled "Edit Employee" is positioned at the bottom of the form. The browser's taskbar at the bottom shows various application icons and the system clock indicating 00:49:32 on 30-04-2024.

**Fig.6.6 Edit Employee**

Assest List						
<a href="#">Add Assest</a>						
Category	Owner (First Name)	Owner (Last Name)	Description	Serial No	Model Number	Action
it	Rishi	singh	payment of 30001	231	56568	<a href="#">Edit</a> <a href="#">Delete</a>
Productivity Software	Isha	Sharma	Microsoft Office 365	654321	456	<a href="#">Edit</a> <a href="#">Delete</a>
Graphics Design	Arjun	Gupta	Adobe Photoshop	987654	123	<a href="#">Edit</a> <a href="#">Delete</a>
Development Tools	Neha	Singh	Visual Studio Code	456123	789	<a href="#">Edit</a> <a href="#">Delete</a>
Antivirus	Kabir	Kumar	Norton Security	789123	456	<a href="#">Edit</a> <a href="#">Delete</a>
Video Editing	Aditi	Yadav	Adobe Premiere Pro	321654	123	<a href="#">Edit</a> <a href="#">Delete</a>
Database Management	Rohan	Malhotra	MySQL	654987	789	<a href="#">Edit</a> <a href="#">Delete</a>
Web Development	Ananya	Mishra	WordPress	295837	345	<a href="#">Edit</a> <a href="#">Delete</a>
Operating System	Pranav	Joshi	Ubuntu 22.04	192837	654	<a href="#">Edit</a> <a href="#">Delete</a>
Productivity Software	Aarav	Shah	Google Workspace	584729	678	<a href="#">Edit</a> <a href="#">Delete</a>

Fig.6.7View Assets

The screenshot shows a web browser window with the URL `localhost:5173/dashboard/add_assest`. The page title is "Visitor Management System". On the left is a dark sidebar labeled "Admin Panel" with links: Dashboard, Manage Employees, Assests, visitors, Category, Profile, and Logout. The main content area is titled "Add Asset" and contains the following form fields:

- Category: A dropdown menu with "Select Category" as the placeholder.
- Owner First Name: A text input field.
- Owner Last Name: A text input field.
- Description: A text input field.
- Serial Number: A text input field.
- Modal Number: A text input field.

At the bottom of the form is a blue button labeled "Add Asset". The browser's taskbar at the bottom shows various application icons and the system clock indicating 00:58:47 on 30-04-2024.

Fig.6.8 AddAssets Form

The screenshot shows a web browser window with the URL `localhost:5173/dashboard/category`. The page title is "Visitor Management System". The sidebar is identical to the previous figure. The main content area is titled "Category List" and features a green "Add Category" button at the top left. Below the button is a table with a single column labeled "Name". The table contains the following categories:

Name
IT
civil
mech
electrical
Computer
Software Development
Web Development
Mobile App Development
UI/UX Design
Data Analytics
Artificial Intelligence
Machine Learning
Cybersecurity
Cloud Computing
DevOps
Blockchain Technology
Internet of Things (IoT)
Bio Data

The browser's taskbar at the bottom shows the system clock indicating 09:44 on 30-04-2024.

Fig.6.9Category



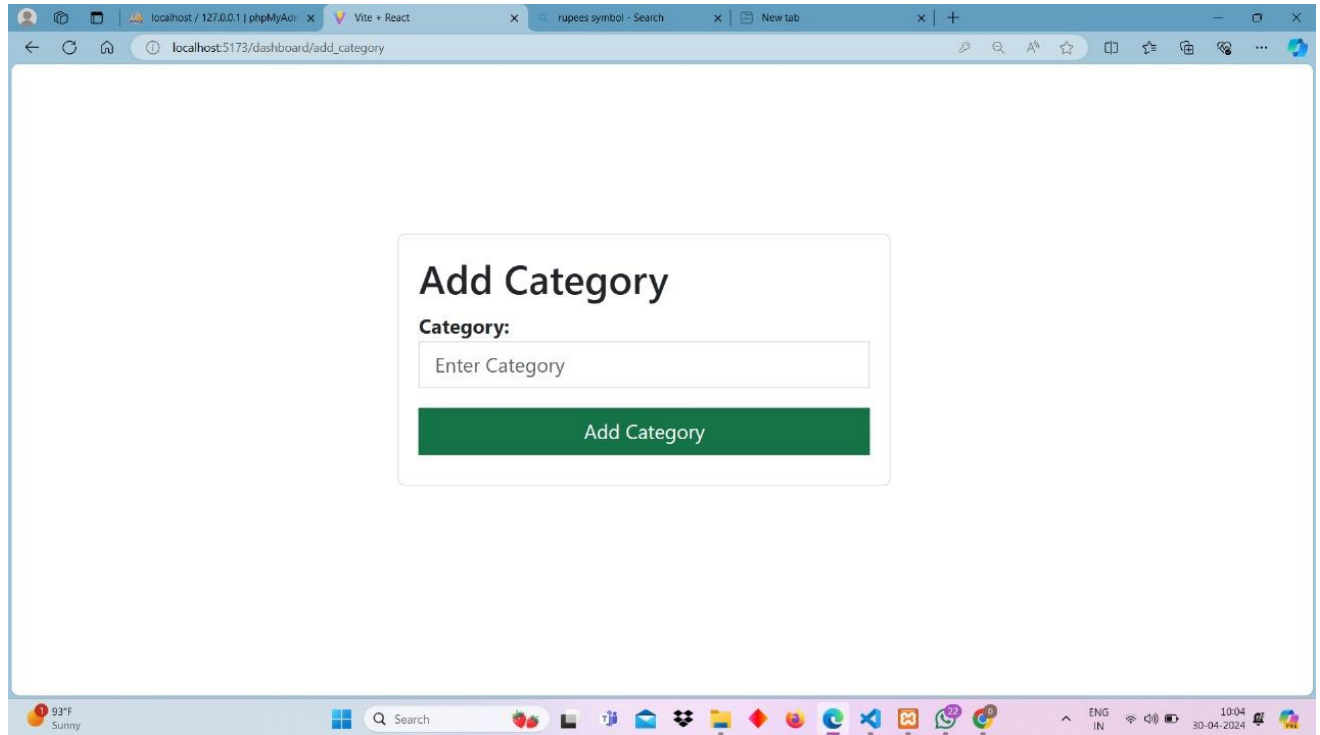


Fig.6.10 Add Category

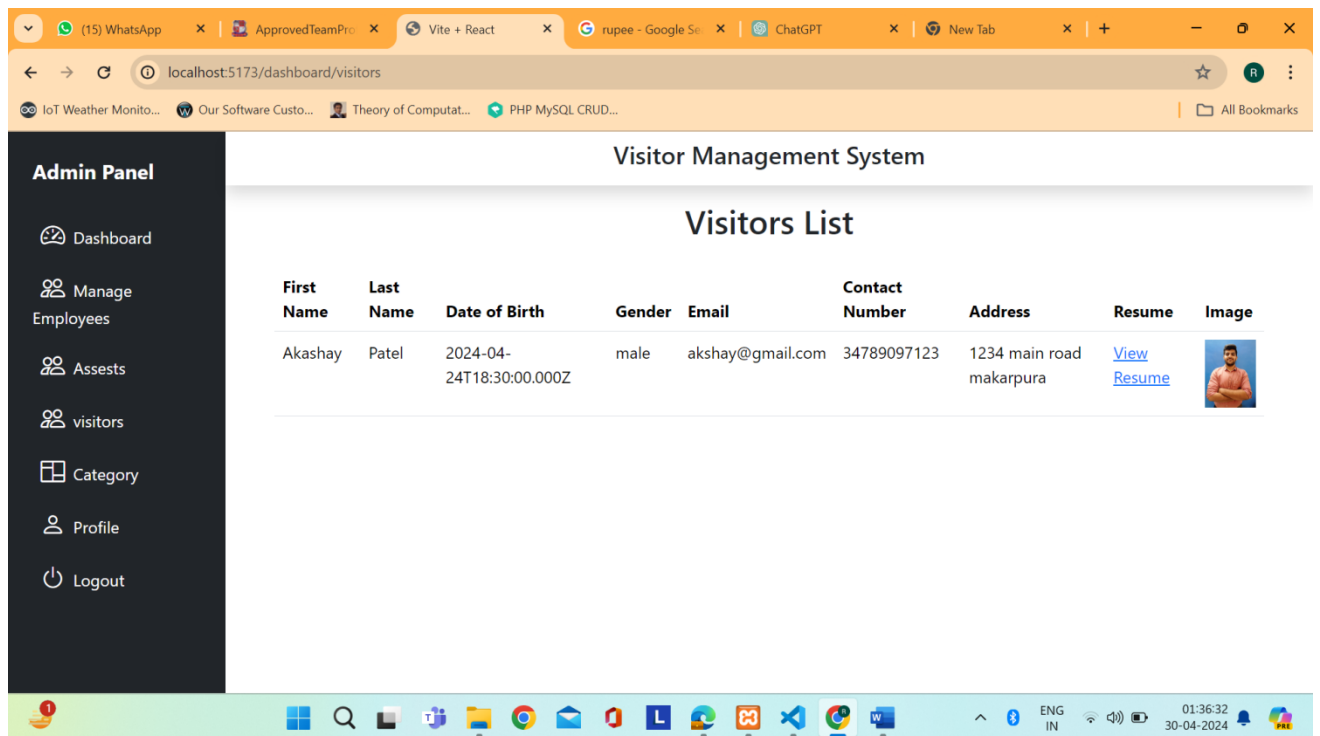
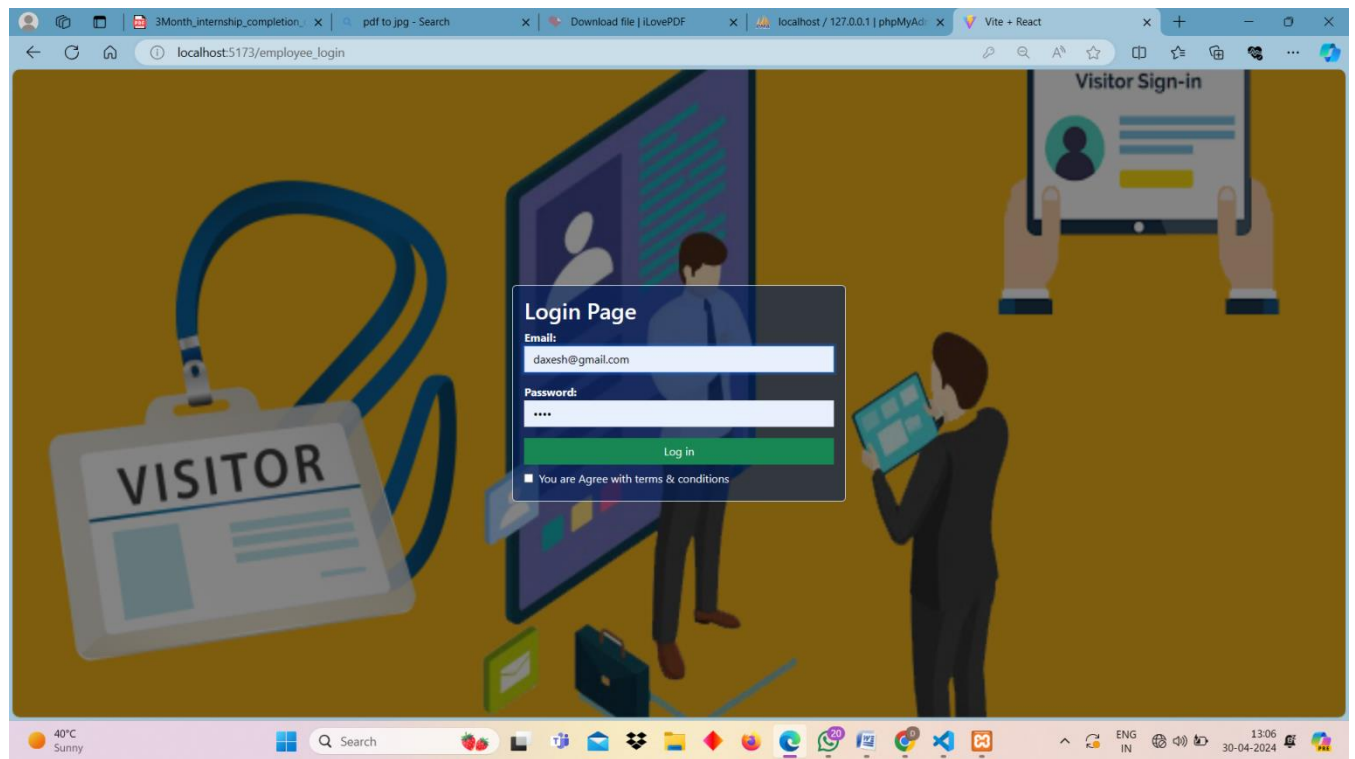
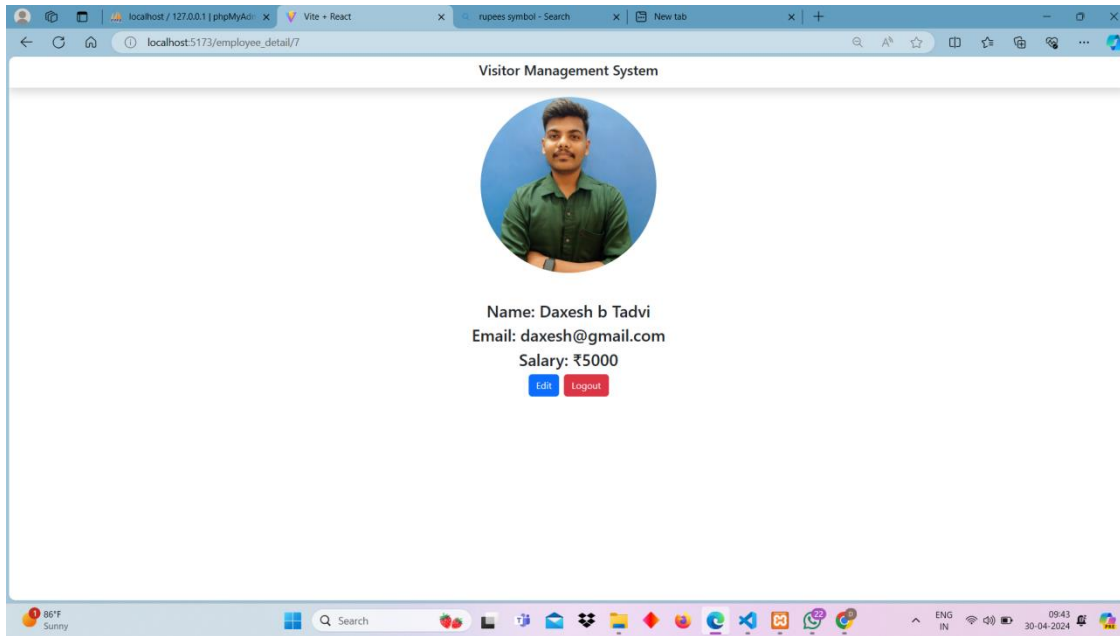


Fig.6.11 Visitors List

### 6.3.2 Employee-Side Panel



**Fig.6.12 Employee login**

**Fig.6.13 Employee Page**A screenshot of a web browser displaying the 'Visitor Form' in a 'Visitor Management System'. The form is overlaid on a background image of a person holding a tablet. The form fields include: 'First Name' (text input), 'Last Name' (text input), 'Date of Birth' (date picker), 'Gender' (select dropdown), 'Email' (text input), 'Contact Number' (text input), 'Address' (text input), 'Upload Resume (optional)' (file upload), and 'Upload Image (optional)' (file upload). A green 'Submit' button is at the bottom. The browser's address bar shows 'localhost:5173/visitorform'. The Windows taskbar at the bottom indicates the date is 30-04-2024 and the time is 09:16.**Fig.6.14 Visitor Form**



**Fig.6.15QR CODE**

## **6.4 RESULT ANALYSIS**

### **6.4.1 Interface**

- User interface design creates an effective communication medium between a human and computer.
- Following a set of interface design principles, design identifies interface objects and actions and then creates a screen layout that forms the basis for a user interface prototype.
- We designed the user interface by applying an iterative process that draws on predefined design principles.

### **6.4.2 Parallel Operation**

- Being a web-application, there will be many simultaneous accesses to the system. There are chances of the same data being modified / viewed at the same time.

### **6.4.3 Reliability Requirements**

- Stability: Ensure consistent system performance and availability.
- Accuracy: Provide precise visitor data capture and reporting.
- Security: Implement robust measures to protect visitor information.
- Scalability: Handle varying levels of visitor traffic effectively.
- Redundancy: Incorporate backup systems to minimize downtime.
- Data Integrity: Safeguard data integrity and confidentiality.
- Compliance: Adhere to legal and regulatory requirements.
- User-Friendly: Offer an intuitive interface for ease of use.
- Support: Provide reliable technical assistance.
- Integration: Seamlessly integrate with existing systems.

### **6.4.4 Regularities Policy**

- This system can work with Xampp 7.2 or higher.
- It will work with phpMyAdmin.

### **6.4.5 Hardware Limitation**

- This system works with the hardware defined or higher.

#### **6.4.6 Advantages**

- Security Enhancement
- Efficiency Improvement
- Enhanced Experience
- Data Management
- Compliance Assurance
- Customization
- Integration
- Cost Savings

#### **6.4.7 Limitation/Disadvantage**

- Initial Setup Costs
- Privacy Concerns
- Limited Customization Options
- Integration Challenges
- Maintenance Requirements

## CHAPTER 7: TESTING

### 7.1 TESTING PLAN

A test plan is the cornerstone of a successful testing implementation. The testing plan represents the overall approach to the test. In many ways, the test plan serves as a summary of the test activities that will be performed. It shows how the tests will be organized, and outlines all of the tester's needs that must be met in order to properly carry out the test. The goal of test planning is to establish the list of tasks that, if performed, will identify all of the requirements that have not been met in the software. There are many standards that can be used for developing test plans. Early in the deployment planning phase, the testing effort, and identifies the methodology that your team will use to conduct tests. It also identifies the hardware, software, and tools required for testing and the features and functions that will be tested. A well-rounded test plan notes any risk factors that jeopardize testing and includes a testing schedule. So, we can say that Test Planning details the activities, dependencies and effort required to conduct the system test.

### 7.2 TESTING STRATEGY

A test plan is the cornerstone of a successful testing implementation. The testing plan represents the overall approach to the test. In many ways, the test plan serves as a summary of the test activities that will be performed. It shows how the tests will be organized, and outlines all of the tester's needs that must be met in order to properly carry out the test. The goal of test planning is to establish the list of tasks that, if performed, will identify all of the requirements that have not been met in the software. There are many standards that can be used for developing test plans. Early in the deployment planning phase, the testing effort, and identifies the methodology that your team will use to conduct tests. It also identifies the hardware, software, and tools required for testing and the features and functions that will be tested. A well-rounded test plan notes any risk factors that jeopardize testing and includes a testing schedule. So, we can say that Test Planning details the activities, dependencies and effort required to conduct the system test.

### 7.2.1 TESTCASE

A test case is a document, which has a set of test data, preconditions, expected results and post conditions, developed for a particular test scenario in order to verify compliance against a specific requirement.

Test Case acts as the starting point for the test execution, and after applying a set of input values; the application has a definitive outcome and leaves the system at some end point or also known as execution post condition.

**Table 7.1 Test Case Table**

Sr.No.	Test Case	Status
1	Test for database connection if the data gets correctly entered or not	Pass
2	Test of different Data Verification	Pass
3	Test for form Validation	Pass



## **CHAPTER 8: CONCLUSION & DISCUSSION**

### **8.1 OVERALL ANALYSIS OF PROJECT VIABILITIES**

The internship certainly provided the author with insights into the live software projects. The author has experienced first-hand the challenges of managing themselves, the work itself, and their co-workers. The author is satisfied with their internship.

### **8.2 PROBLEMS ENCOUNTERED**

#### **8.2.1 Difficulty Communicating**

In collecting primary data, it is really hard to get correct information from people as they might not feel comfortable or provide their false feeling.

To observe the whole corporation's activities and come up with a fruitful result requires a huge amount of time, so the time limit is another crucial limitation of this study.

The internship proposal is conducted based on several secondary data which were rather inefficient or unreliable.

#### **8.2.2 Struggle Understanding Things**

The Internship project brings together many technologies and tools like Bootstrap, Visual Studio, SQL, PHP, HTML, CSS, React JS, Node JS to work together. Understanding all as one system took some time.

### **8.3 SUMMARY OF INTERNSHIP**

Overall, the internship program at Bharti Soft Tech Pvt Ltd provided an invaluable opportunity for me to enhance and develop my skills in Technical, Communication, and Soft Skills. The experience was enriching, allowing me to gain insights into various aspects of visitor management system development. Bharti Soft Tech Pvt Ltd proved to be an exceptional company for internship, offering numerous benefits and advantages to interns. The company's treatment was equitable and professional, fostering a conducive learning environment. Throughout the internship, I had the privilege of learning from professionals across different departments, gaining insights into their work processes and client management strategies. I am particularly grateful to my mentor, Mr. Pritamsinh Parmar, for their guidance, support, and tutoring throughout the internship. Their expertise and mentorship helped me address weaknesses and navigate challenges effectively. Overall, the internship at Bharti Soft Tech Pvt Ltd was a valuable experience that significantly contributed to my professional growth and development.

## 8.4 LIMITATIONS AND FUTURE ENHANCEMENT

### 8.4.1 Limitation

- **Manual Visitor Registration:** The system may still rely on manual visitor registration processes, lacking automated features for self-registration or online booking, which could result in inefficiencies and longer wait times.
- **Limited Notification System:** The system may lack a comprehensive notification system, preventing visitors from receiving email or SMS notifications after completing their check-in or check-out, potentially leading to missed appointments or confusion.

### 8.4.2 Future Enhancement

In future enhancements for the Visitor Management System, integrating a mobile app for pre-registration and check-in, along with facial recognition technology, promises to enhance security and streamline visitor processes. Incorporating AI-powered analytics would provide valuable insights for decision-making, while IoT integration could optimize space usage. A virtual receptionist, multi-language support, and expanded reporting capabilities would further improve the visitor experience. Additionally, API integration, sustainability initiatives, and ongoing training would ensure the system remains adaptable and efficient in meeting evolving needs.

## REFERENCES

- 1) <https://www.w3schools.com/html/>  
It is helpful for learning the tags and attributes of HTML.
- 2) <https://www.w3schools.com/css/default.asp>  
It is helpful for learning the concepts of CSS.
- 3) <https://www.w3schools.com/bootstrap4/default.asp>  
It is helpful for learning the responsive terms of BOOTSTRAP.
- 4) <https://www.w3schools.com/sql/default.asp>  
It is helpful for learning queries of SQL.
- 5) <https://www.w3schools.com/php/default.asp>  
It is helpful for learning the concept of PHP.
- 6) <https://fontawesome.com/>  
It is helpful for getting the required fonts for a website.
- 7) <https://pixabay.com/>  
It is helpful for getting the required pictures for the website.