



MCA (Master of Computer Applications) Department
Faculty of Management & Information Sciences,
Dharmsinh Desai University,
College Road, Nadiad-387 001

Employee Management System

**Work carried out at
Proses Web Technologies Pvt. Ltd.**

A

Project Report

**Submitted for partial fulfilment towards the degree of
Master of Computer Applications (2023-24) Submitted by**

Pratik Kharva. (MA-041), <22mapbs081>

Under the guidance of

Internal Guide

Prof. Minal Shah
MCA Department,
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External Guide

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MCA Department
Faculty of Management & Information Sciences,
Dharmsinh Desai University,
College Road, Nadiad-387001

Certificate

This is to certify that **Pratik Kharva (MA041)** of MCA Semester-VI of Dharmsinh Desai University, Nadiad, has/have worked on the project "**Employee Management System**" under my guidance. They have successfully completed the project.

This project was carried out from 22-01-2024 to 23-03-2024 as partial fulfilment towards the degree of MCA (Master of Computer Applications). We wish them success in his/her/their future endeavors as Computer professionals.

Guide by
Prof. Minal Shah
MCA Department
Date:

Dr. Narayan Joshi
Professor & Head, MCA Department
D.D.University
Date:

Company Certificate

ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance from many people, and we are extremely fortunate to have got this all along the completion of my project work. Whatever we have done is only due to such guidance and assistance and we would not forget to thank them.

We feel our self very fortunate to have got an opportunity to work in Master of Computer Application Department, DDU while undertaking the project named "**Employee Management System**". This opportunity has proved to be great and immense important to us as it has gifted us with manifold opportunity and benefits. As the end of our successful completion of our M.C.A semester - IV project training in M.C.A Department, DDU. We are greatly thankful to those distinguishing personalities, who have made it all possible for us.

We are sincerely thankful to **Dr. Narayan Joshi** (Head of Department, MCA) and all the staff members of M.C.A. Department for their constructive thoughts and vision towards successful completion of the project.

We are highly thankful to **Prof. Minal Shah** (MCA) for their kind support who encouraged and motivated us throughout this tough task.

Our thanks and appreciation also goes to our colleague in developing the project and people have willingly helped us out with their abilities. Last but not the least we place a deep sense of gratitude to our family members and our friends, who have been constant sources of inspiration during the preparation of this project work.

Thank You
Pratik Kharva

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1. DDU Profile

Dharmsinh Desai University (DDU), located at Nadiad is one of the leading institutions of learning in Gujarat. Since inception in 1968 as an institute for higher education in technology and engineering by the then Member of Parliament, Shri Dharmsinh Dadubhai Desai, it is committed to grooming students for leadership roles in the society.

Having modesty started with Diploma and Degree courses in Chemical Engineering. It has by now grown as top most Institute of Gujarat offering Graduate and Post Graduate level courses in various disciplines, and ultimately has become a State University in the year 2005. The institute gained an autonomous status in 1999 with approval from UGC and Gujarat Government and became a Deemed University accredited by N.B.A. in the year 2000. This University offers Graduate and Post Graduate level courses in various disciplines and Master of Computer Applications (MCA) is being run under Faculty of Management and Information Science since 1987. DDU's Mission is to undertake programs and projects for development of human resources, both through formal and non- formal delivery systems, in areas of professional pursuits in all walks of human endeavors, with accent on relevance, value addition, societal needs and futuristic pilot projects.

In November 2013, the organization in UK, the 'Oxford Summit of Leaders', chose Dharmsinh Desai University as the best regional university. This is the first time the Oxford Group has given this award to a university outside Europe. The University has been accredited by UGC NAAC.

D.D. University believes not only in providing quality education, but also provides an overall development of its students in the form of being disciplined, socially accountable to the society and responsible citizen of our country.

The University runs various courses in Technology, Pharmacy, Management and Information Sciences, Dental Sciences, Medical Sciences.

2. Company Profile



Company Name: Proses Web Technologies Pvt. Ltd.

Company Address: 311,312 Park Paradise, Ring Rd, near Billabong High school, Vadsar, Kalali, Vadodara, Gujarat 390012

Company Overview:

PROSES is a place where innovative business ideas are converted into Technical reality. Established in 2005 with a purpose to bring positive difference in the business modules with the involvement of advanced technology. Our idea is to connect the dots of the businesses with web technology to ensure flawless and quick completion of the distinct business procedures. This helps businesses to grow at rapid pace in brief time.

Mission:

We believe not only in offering solution but ensuring positive connection with our clients. Thus, we offer endless solution to our customers and seek for further assistance needed by our customers. This makes us trusted customer-centric solution provider. Therefore, our mission varies with the requirements of the Clients. After-all, we just not work for them but we live their projects.

Services:

Web Development Mobile Development IOT / Beacons UI/UX
Sound Support

At PROSES, we work at the core concept of web and mobile development Where we look at every single aspect and requirement of the clients; so that both can be interwoven into an application to ensure high-end web & mobile

3. Project Profile

Company name	Proses Web Technologies Pvt. Ltd
Project title	Employee Management System
Project Definition	An employee management system or EMS is a tool that helps improve employee satisfaction and productivity to help a company achieve their overall goals.
Project description	<p>The Employee Management System (EMS) is a software application designed to Management of employee data within an organization. This system provides functionalities for managing employee information, such as personal details, leave requests</p> <p>admin: Admin (Full Rights)</p> <p>manager: employee(Rights)</p>
Aim of Project	Employee Management System Project is designed to keep track of employee information in any company. It stores data such as their employees' personal information leave details
Tools/Technologies	HTML, JavaScript, React, Bootstrap, MySQL, Node
Duration	4 Month
Team Size	1
Type	Web Application
Internal guide	Prof. Minal Shah
External guide	Mr. Parthiv Shah

4. Tools and Technologies

Front End	HTML, Bootstrap, JavaScript, React js
Back End	Node js
Database	MySQL Server
Tools/ Technology	Visual Studio Code,
Type of application	Web Application

5. Planning

5.1 Project Definition

An employee management system is a system that helps to improve employee management and productivity to help a company achieve their overall goals. These system help monitor, assess and control employees' working hours. It include Manager efficiently manages each employee's information and distribute salaries.

With the help of employee management system the Manager department can implement processes and help companies achieve their business objectives. By helping managers keep track of admin activities, the system can help improve employee engagement and increase productivity. These system also help an organization for Leave management.

5.2 Preliminary Investigation

Employee Management System



6. System Analysis

6.1 Feasibility Study

- **Technical Feasibility:**
 - **System Requirements:**

The EMS will require technical infrastructure including servers, databases, and network connectivity. Assessing the availability of these resources within the organization or the ability to procure them externally is essential.
 - **Technology Stack:**

Determine the feasibility of using appropriate technologies for development, considering factors such as compatibility, scalability, and integration capabilities with existing systems.
 - **Security:**

Evaluate the feasibility of implementing robust security measures to safeguard employee data, including encryption, access controls, and regular security audits.
- **Economic Feasibility:**
 - **Cost Analysis:**

Estimate the development, deployment, and maintenance costs associated with implementing the EMS. Consider factors such as software licensing, hardware infrastructure, development resources, and ongoing support.
 - **Return on Investment (ROI):**

Assess the potential ROI by quantifying the benefits of the EMS, such as improved employee productivity, streamlined HR processes, reduced administrative overhead, and compliance with labour laws. Compare these benefits against the projected costs to determine economic feasibility.
- **Operational Feasibility:**
 - **User Requirements:**

Gather user requirements from HR professionals, managers, employees, finance department, training teams, and recruiters to ensure that the EMS meets their operational needs.

- **Change Management:**

Assess the organization's readiness for adopting the EMS, including potential resistance to change and strategies for managing organizational change effectively. Consider factors such as user training, communication plans, and stakeholder engagement.

- **Legal and Regulatory Feasibility:**

- **Data Privacy and Compliance:**

Ensure that the EMS complies with data protection regulations (e.g., GDPR, HIPAA) and labour laws regarding employee records, working hours, payroll processing, and confidentiality. Assess the feasibility of implementing necessary controls and procedures to achieve compliance.

- **Schedule Feasibility:**

- **Project Timeline:**

Develop a detailed project plan with milestones and deadlines for different phases of development, testing, deployment, user training, and support. Assess the feasibility of meeting these timelines based on resource availability, complexity of the project, and potential risks.

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6.2 System Requirement Specification

1. Introduction

The Employee Management System (EMS) is a software application designed to streamline the management of employee data within an organization. This system provides functionalities for managing employee information, such as personal details, attendance, leave requests, performance evaluations, and payroll processing.

1.1 Purpose

The purpose of this document is to define the requirements for the development of an Employee management to manage Human resource effectively as well as efficiently by the employer. The system is created for the core purpose is to manage employee things and togetherness of three core tires of every organization. And being helpful to an organization.

1.2 Definition

The Employee management system describes the management of employee and all the authorization are in the hands of admin and some of part through the manager.

1.3 Scope

The Employee management system is used by human resource managers as well for analysers of any organization. It includes salary of every employee, admin can add, update, delete employee, admin can also modify data within the system as well as leave of employees are goes under the managers.

1.4 Intended Audience and Users

- Human Resources (HR) Professionals:**

These are the main users of Employee management system. They have to work on their human resource and make them feel better as well as via less efforts. All this requirements can filled up by the Employee management system.

- Decision-makers:**

Decision-makers, including executives and organizational leaders they have to analyse on organizations man power as well as they can take decision regarding new joining as well as their management.

- Data Analysts:**

Another important audience is data analyst. Their main work is to analyse employee data while distributing allowances, their expenses on their human property.

2. Overview

2.1 Environmental Characteristics

2.1.1 Hardware/Software

Software

<u>Name of component</u>	<u>Specification</u>
Operating System	Windows7, Windows10, Windows11
Language	React, HTML, JavaScript, Bootstrap, CSS.
Database	MySQL Server
Browser	Chrome, Internet Explorer, Microsoft Edge
Web Server	Apache
Software Development Kit	Node
Scripting Language Enable	JavaScript

Hardware

<u>Name of component</u>	<u>Specification</u>
Processor	Intel(R) Core (TM) i5-5200U
Monitor	15" Color Monitor
RAM	8 GB
Hard disk	20GB
Keyboard	122 Key

2.1.2 Peripheral

No specific peripheral hardware is required for accessing the Dashboard of Employee management system. Employee, manager and admin can interact with the platform using standard input devices such as keyboards and mice, along with displays (monitors/screens) for visualizing the data.

2.1.3 People

- **Development Team:**

Software Engineers: Responsible for developing frontend and backend components, implementing features, and ensuring system functionality.

UI/UX Designers: Design user interfaces, wireframes, and prototypes for optimal user experience.

- **End-users:**

Employee: This are the vital role who use this system. To show their profile, attendance, salary.

Admin: The handler or in other words primary user which handles the data, authorizations, protocols etc.

Managers: The middleware or which are being monitors of the Employee Management System.

Human Resources Managers: Use demographic and income data to understand workforce characteristics and plan recruitment strategies.

2.2 Overview

The Employee Management System is used to handle employee data and being easy handler to manage human force and their profiles.

2.3 Acronyms & Abbreviation

Employee Dashboard (ED): The web-based platform designed to showcase Employee data.

EMS: Employee Management System

HRMS: Human Resource Management System

HRIS: Human Resources Information System

EHR: Employee Health Record

EIS: Employee Information System

TMS: Talent Management System

ATS: Applicant Tracking System

PMS: Performance Management System

T&A: Time and Attendance

DMS: Document Management System

2.4 References

Human resource activities
Node libraries

3. Specification Requirements/ Functional Requirements

- A log in facility for enabling only authorized access to the system.
- System administrator will be able to add, modify, enable, disable or delete any feature like, employee information, and login information.
- System administrator will be able to create login credentials for new employees.
- Employees will be able to view their information.
- An employee cannot view other employee details.

3.1 User Authentication

Requirement 3.1.1: Users must authenticate themselves before accessing the Employee management dashboard.

Requirement 3.1.2: Authentication mechanisms such as Email and password.

3.2 User Interface

Requirement 3.2.1: The dashboard shall display various navigates to Display employee data.

Requirement 3.2.2: Admin can add and update employee and employee can get data.

3.3 Various roles

Requirement 3.3.1: There is 3 roles and all of them can get their Screens. There are Employee, manager, admin.

3.4 User Class

3.4.1 Attributes

Employee ID: A unique identifier for each employee.

Name: The full name of the employee.

Username and Password: For user authentication and access control.

Contact Information: Such as email.

Position: The position or role of the employee within the organization.

Department: The department to which the employee belongs.

3.4.2 Methods

Getters and Setters: For accessing and updating the attributes of the user.

Authentication: Verify the username and password for login purposes.

Update Profile: Allow the user to update their contact information.

View Personal Information: Display the employee's details.

3.4.3 Access Control

Authorization Check: Ensure that the user has the necessary permissions for certain actions or access.

3.4.4 Password Management

Password: passwords, ensure they are secure.

3.4.5 Relationships

Manage Relationships: If the system involves hierarchical relationships or reporting structures, the User class may need methods to manage these relationships.

4. Non-Functional Requirements

- Employees never allowed to modify their or other employee's information. Such attempt will be reported to the administrator.
- Employees can change their password when they want.

4.1 Accessibility, Reliability and Availability, Performance, Security

- **Accessibility:**
The Employee Dashboard shall comply with accessibility standards, ensuring that it is accessible to users with disabilities. This includes:
 - Providing alternative text for images and visual elements for screen readers.
 - Ensuring keyboard navigation functionality for users who cannot use a mouse.
 - Maintaining adequate colour contrast and font sizes for readability.
- **Reliability and Availability:**
The Employee dashboard shall have a reliable uptime of at least 99%, ensuring that it is consistently available for employees.
 - Regular maintenance and updates to address any potential issues promptly.
 - Monitoring system performance and availability to proactively identify and resolve any issues.
- **Performance:**
The Employee dashboard shall load within 3 seconds on standard internet connections to ensure optimal user experience. This includes:
 - Optimizing front-end and back-end code to reduce loading times.
 - Implementing caching mechanisms to speed up data retrieval and rendering processes
- **Security:**
The Employee dashboard shall ensure the security of data transfer and storage to protect sensitive information.
 - Implementing encryption protocols such as HTTPS for secure data transmission over the network.
 - Utilizing secure authentication mechanisms to restrict access to authorized users only.
 - Regular security audits and updates to address any vulnerabilities and ensure compliance with industry standards.

4.2 Interfaces

4.2.1 User Interfaces

The Employee dashboard shall have an effective and user-friendly interface that allows users (Employee, manager, admin) to interact with data and display features efficiently.

4.2.2 Software Interfaces

The Employee dashboard shall integrate with various software components and services to support its functionality. This includes:

Integration with frontend frameworks such as React for building user interfaces.

Integration with backend frameworks such as Node for handling server-side logic and APIs.

Integration with database systems such as MySQL and Mongo DB for data storage and retrieval.

4.2.3 Communication Interfaces

The Employee dashboard shall support communication interfaces for exchanging data and information between different components. This includes:

APIs and web services for communicating with external files and data sources. Such as database

5. Behavioral Description

5.1 System States

- Admin Login State:**

Transitioned to when an admin logs into the system. The system authenticates the user credentials.

- Employee Login State:**

Transitioned to when an Employee logs into the system. The system authenticates the user credentials.

- Manager Login State:**

Transitioned to when a Manager logs into the system. The system authenticates the user credentials.

- Employee Information Viewing State:**

Entered when a user accesses the employee information module. The system displays employee details.

- Manager Information Viewing State:**

Entered when a user accesses the Manager Information module. The system displays relevant Manager Details.

- Admin Information Viewing State:**

Entered when a user accesses the Admin Information module. The system displays relevant admin details.

- **Manager Information Editing State:**

Entered when a manager is authorized to edit Manager Information and Employee Information. The system allows modifications to Manager and Employee records.

- **Admin Information Editing State:**

Entered when an admin is authorized to edit admin information, Manager Information, Employee Information. The system allows modifications to admin, employee and manager records.

- **New Employee State:**

Entered when a user initiates the on-boarding process for a new employee. The system prompts the Manager and admin to enter relevant information for the new employee.

- **Leave Request State:**

Transitioned to when an Employee logs into the system. The system authenticates the employee credentials. And employee can apply leave and manager have rights to approve and decline leave Request.

5.2 Events and Actions

- **Admin Login Event:**

Action: The system verifies Admin credentials and transitions to the Login State if successful.

- **Manager Login Event:**

Action: The system verifies manager credentials and transitions to the Login State if successful.

- **Employee Login Event:**

Action: The system verifies employee credentials and transitions to the Login State if successful.

- **View Employee Information Event:**

Action: The system retrieves and displays the relevant employee information.

- **View Admin List Event:**

Action: The system retrieves and displays the relevant admin list.

- **View manager Information Event:**

Action: The system retrieves and displays the relevant manager information.

- **Edit Employee Information Event:**

Action: The system allows the user to modify employee records after proper authorization.

- **Edit Admin Information Event:**

Action: The system allows the user to modify admin records after proper authorization.

- **Edit Manager Information Event:**

Action: The system allows the user to modify manager records after proper authorization.

- **Admin Logout Event:**

Action: The system returns to the Idle State.

- **Manager Logout Event:**

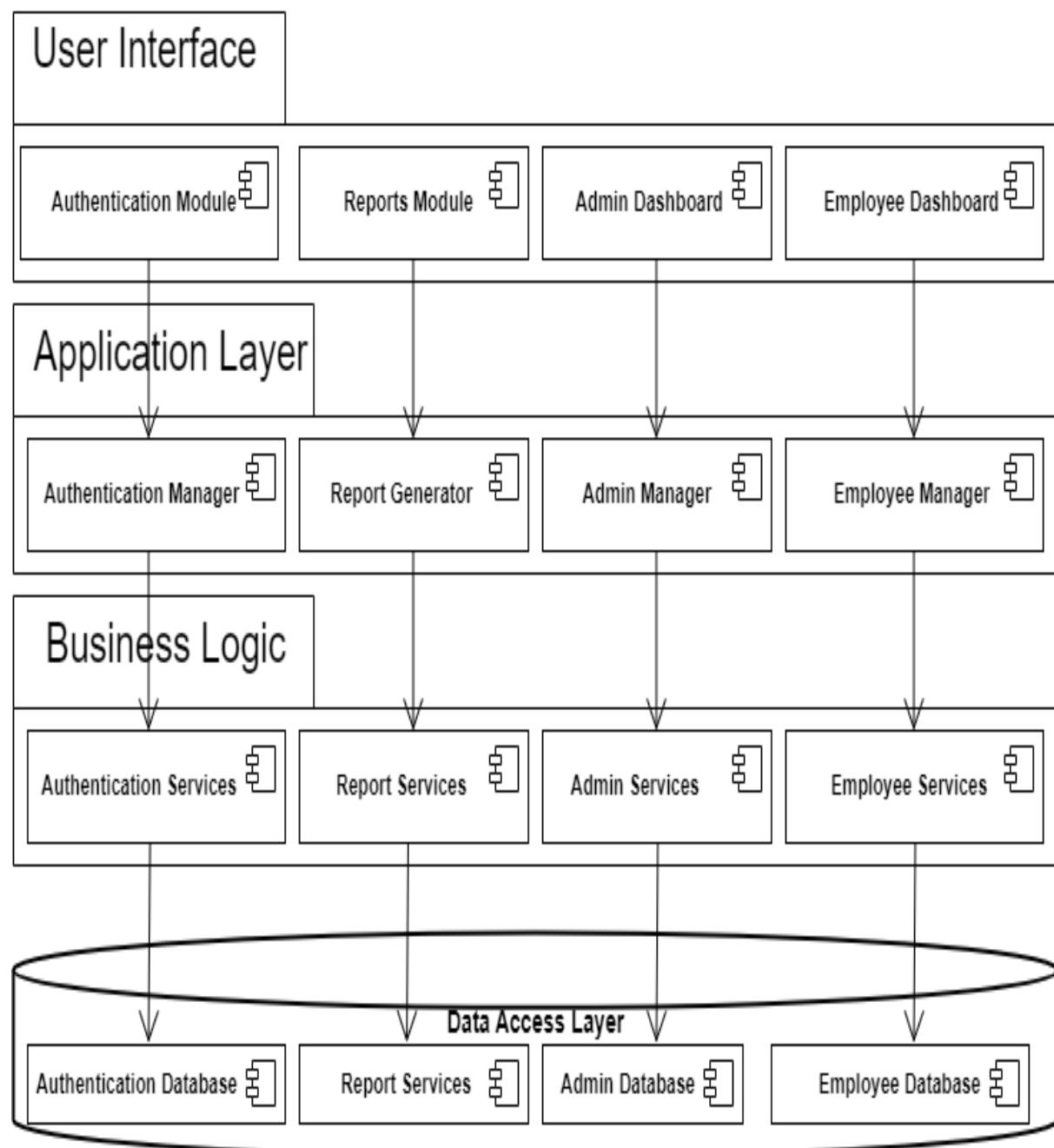
Action: The system returns to the Idle State.

- **Employee Logout Event:**

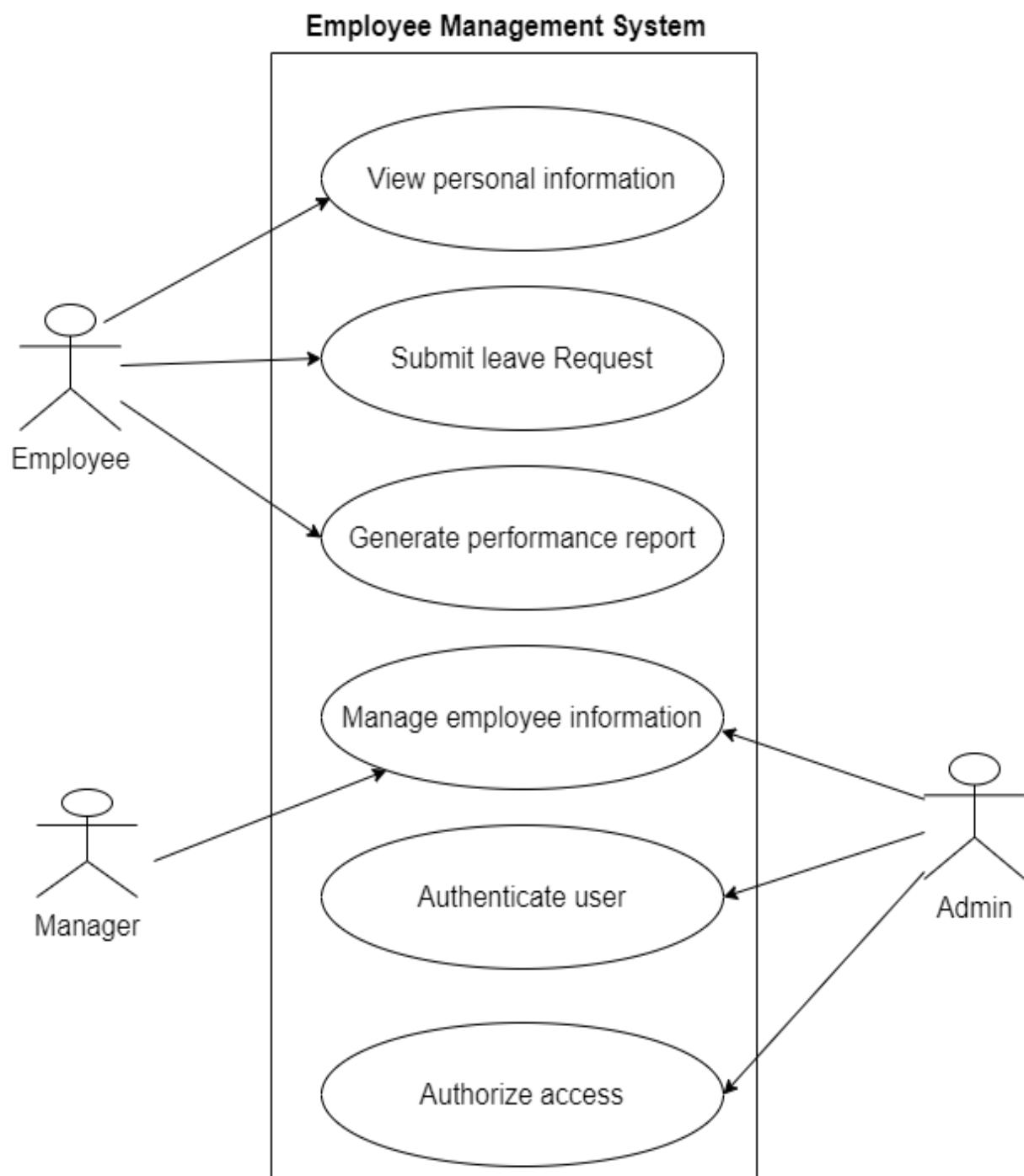
Action: The system returns to the Idle State.

7. System Design

7.1 Architectural diagram

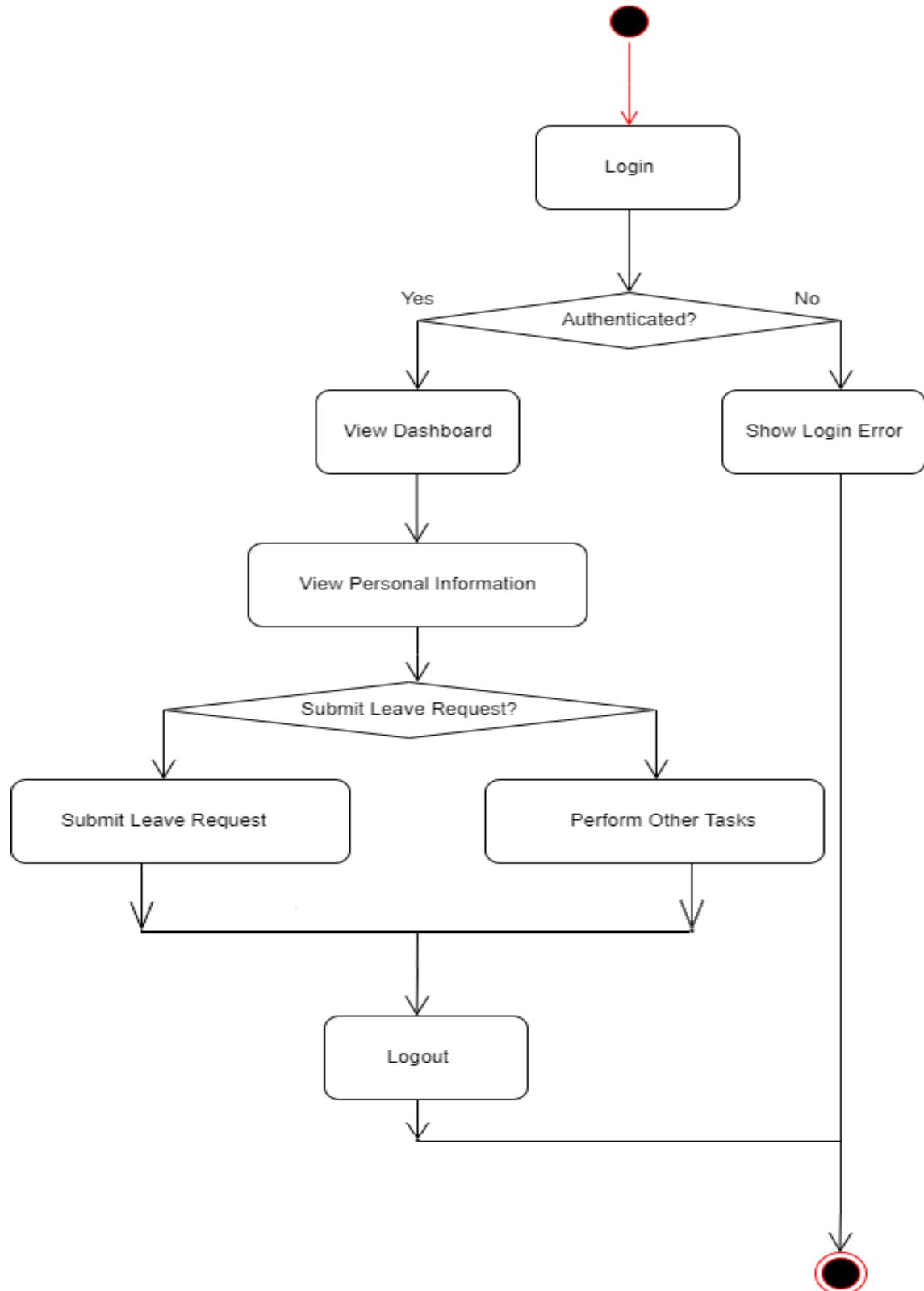


7.1.1 Use case Diagram

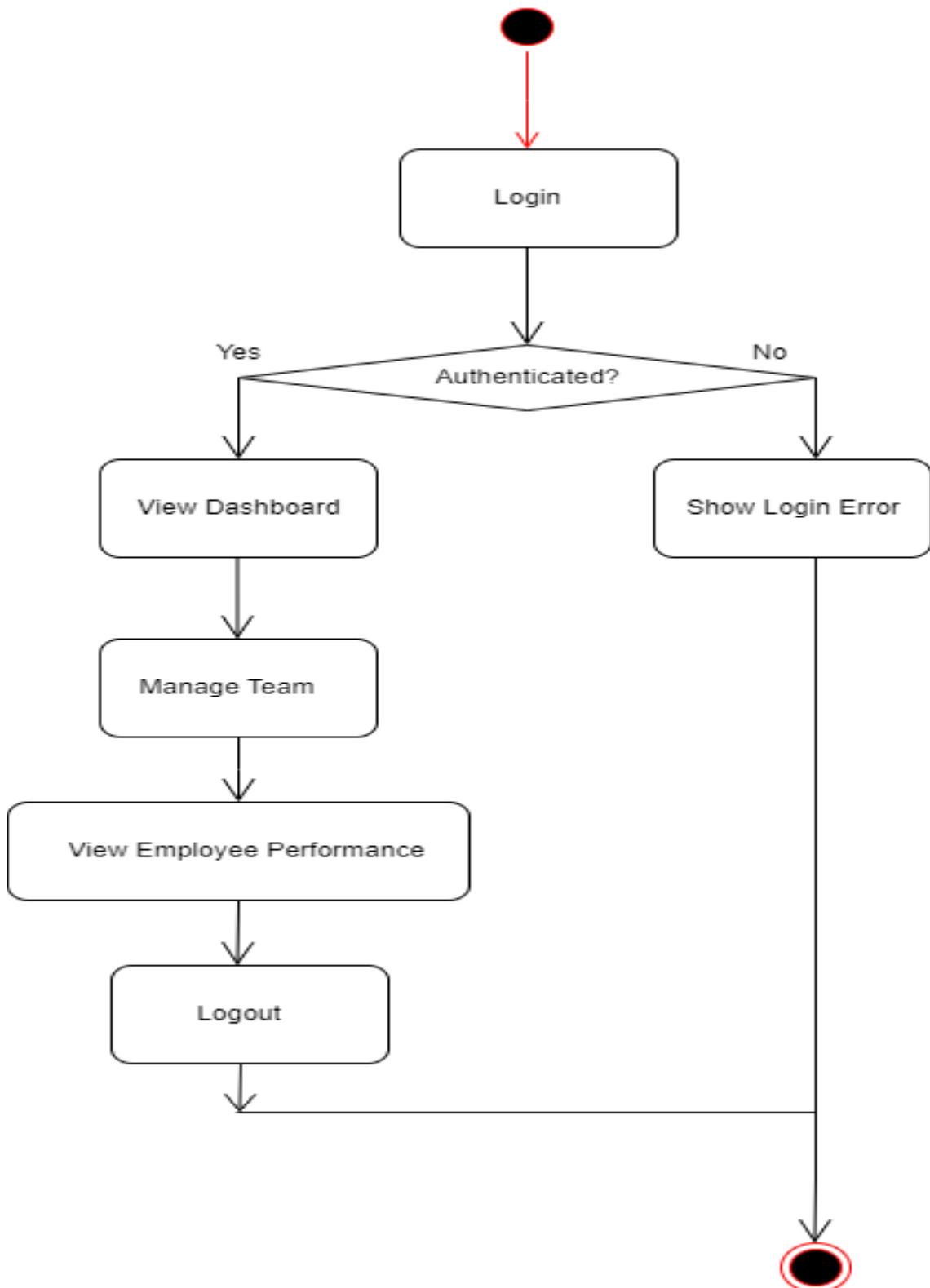


7.1.2 Activity Diagram

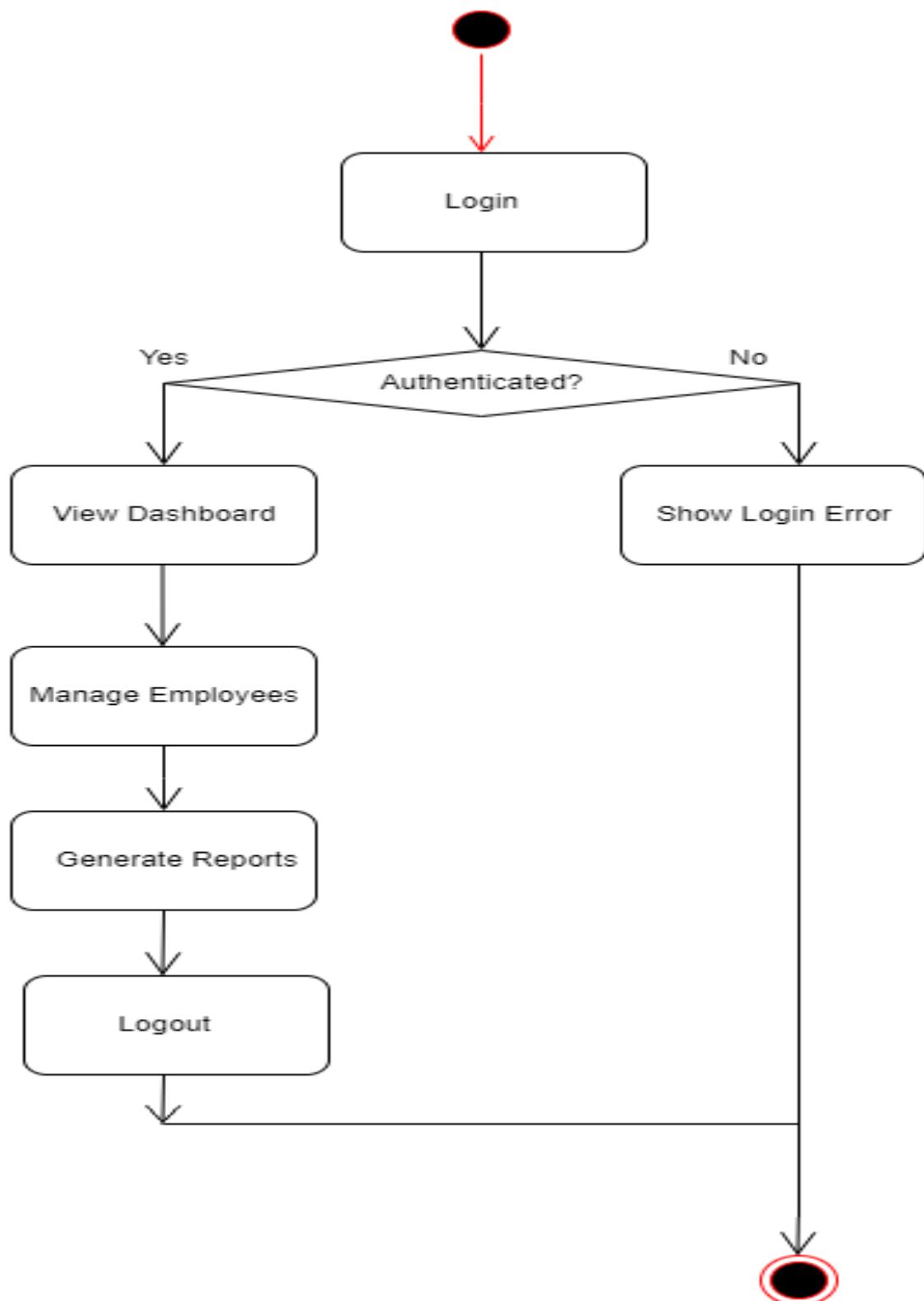
Employee Activity



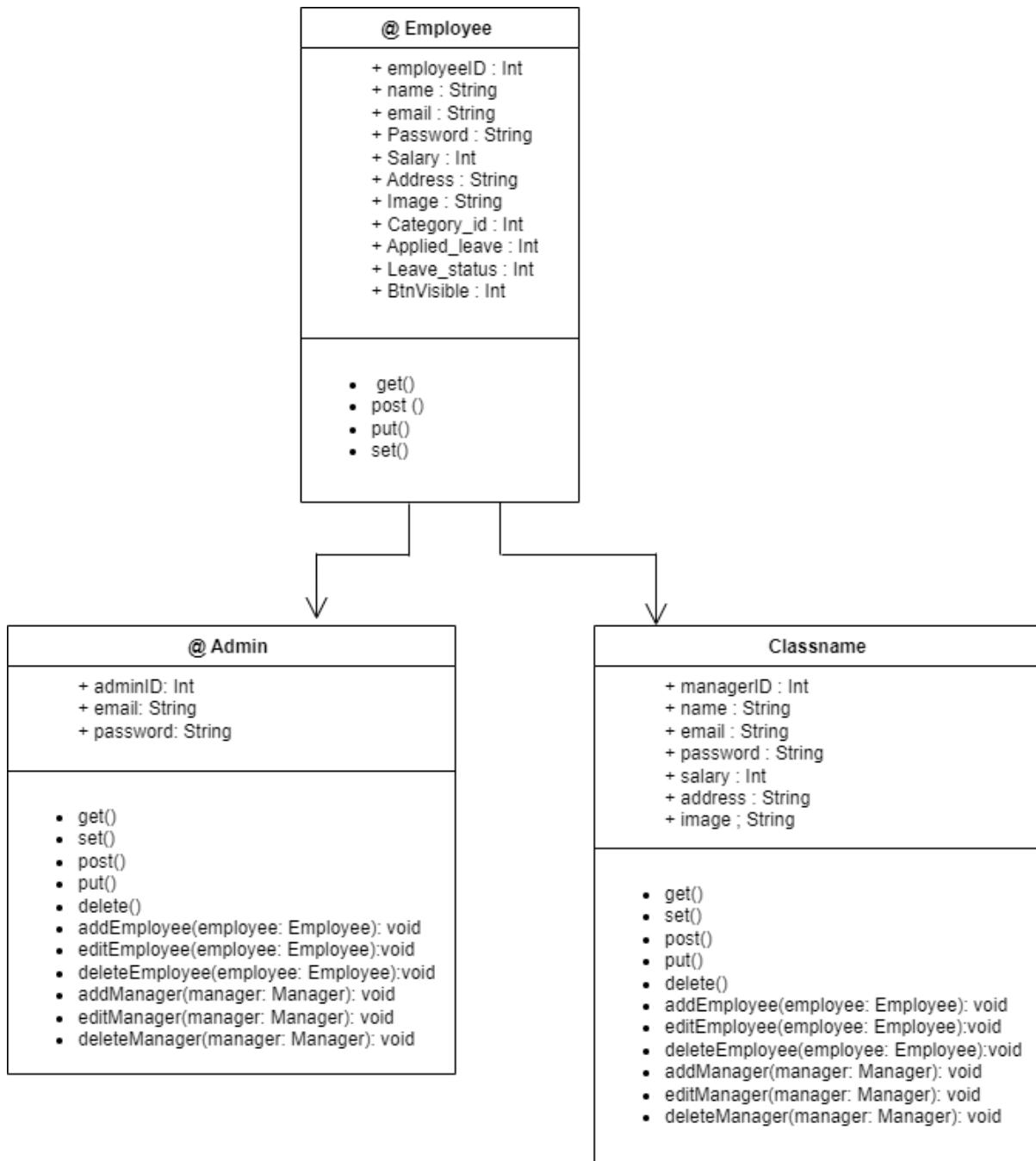
Manager Activity



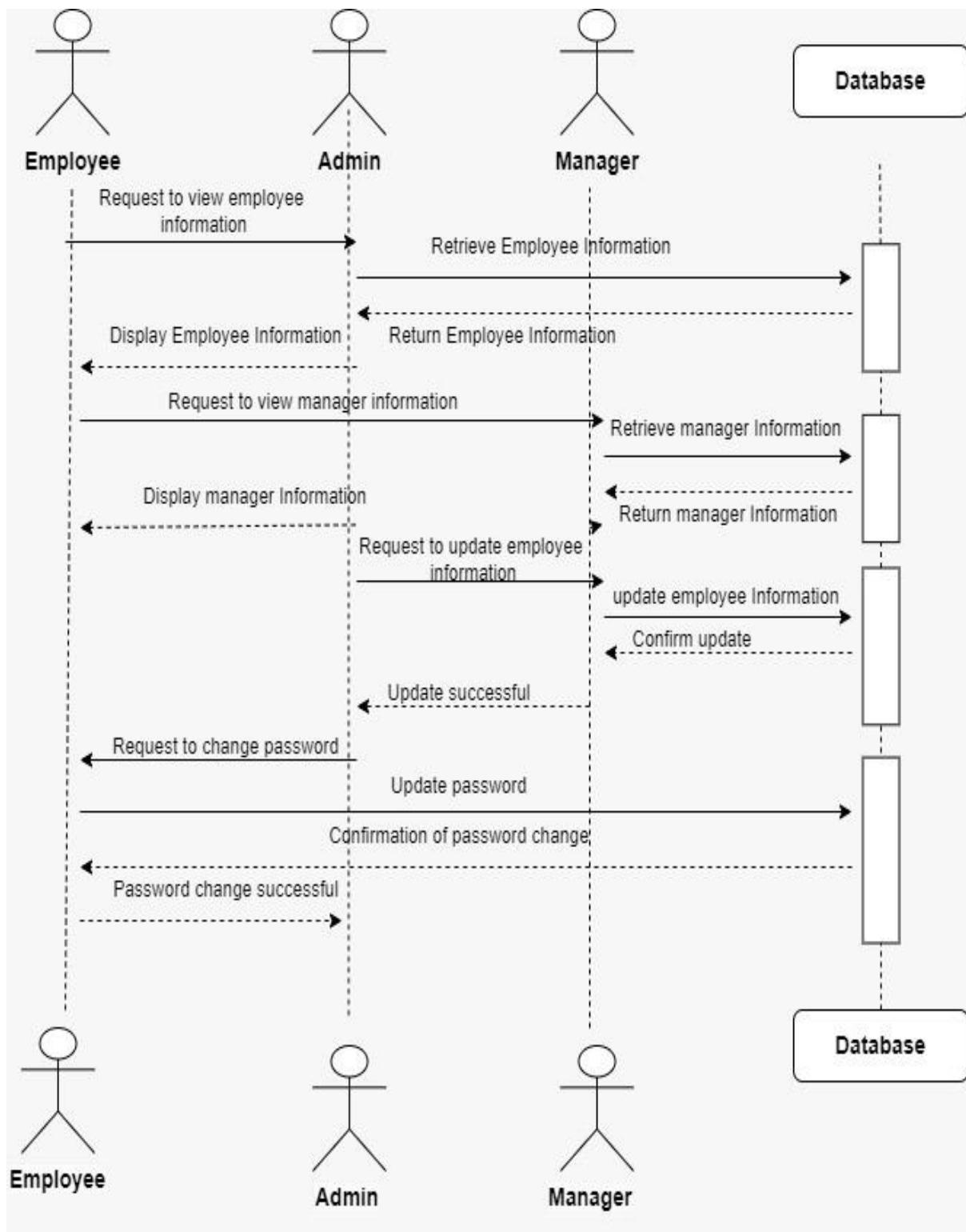
Admin Activity



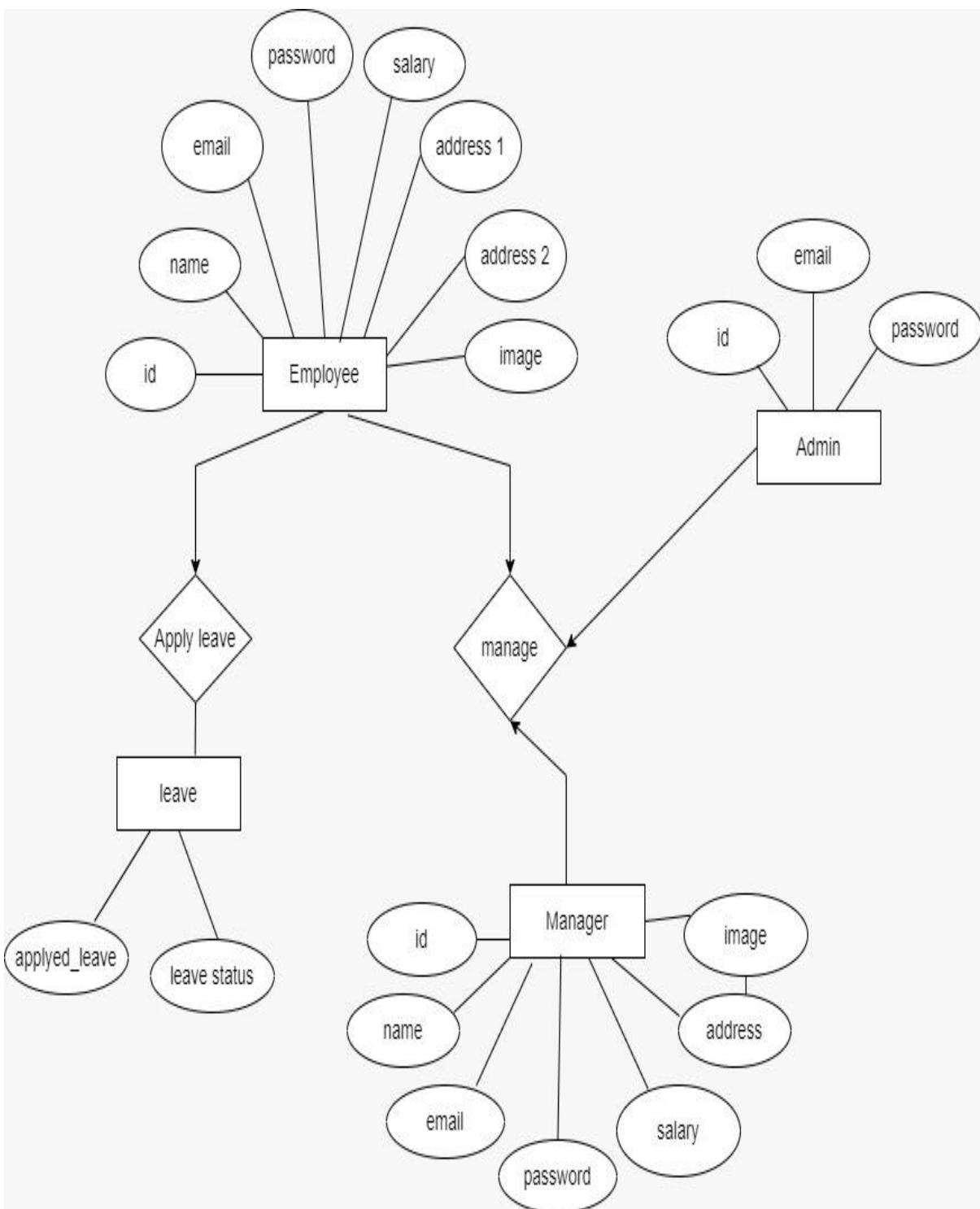
7.1.3 Class Diagram



7.1.4 Sequence Diagram



7.2 ER Diagram



7.3 Data Dictionary

Employee Table

Field	Data Type	Description
EmployeeID	INT	Unique identifier for each employee
Name	VARCHAR(50)	First name of the employee
Email ID	VARCHAR(50)	Email Id of the employee
Password	VARCHAR(150)	Password of the employee login
Salary	INT	Salary of the employee
Address	VARCHAR(50)	Address of the employee
Image	VARCHAR(60)	Image of the employee
Category_id	INT	Unique identifier for each category
Applied_leave	INT	Applied for leave of employee
Leave_status	TINYINT	Check status of leave of employee
BtnVisible	INT	Leave Status Check at employee side

Manager Table

Field	Data Type	Description
Manager Id	INT	Unique identifier for each manager
Name	VARCHAR(30)	Name of manager
Email Id	VARCHAR(50)	Email id of the manager
Password	VARCHAR(150)	Password of the manager login
Salary	INT	Salary of the manager
Address	VARCHAR(50)	Address of the manager
Image	VARCHAR(60)	Image of the manager

Admin Table

Field	Data Type	Description
AdminId	INT	Unique identifier for each admin
Email Id	VARCHAR(50)	Email id of the admin
Password	VARCHAR(150)	Password of the admin login

Category table

Field	Data Type	Description
Category Id	INT	Unique identifier for each Category
Name	VARCHAR(30)	Name of Category

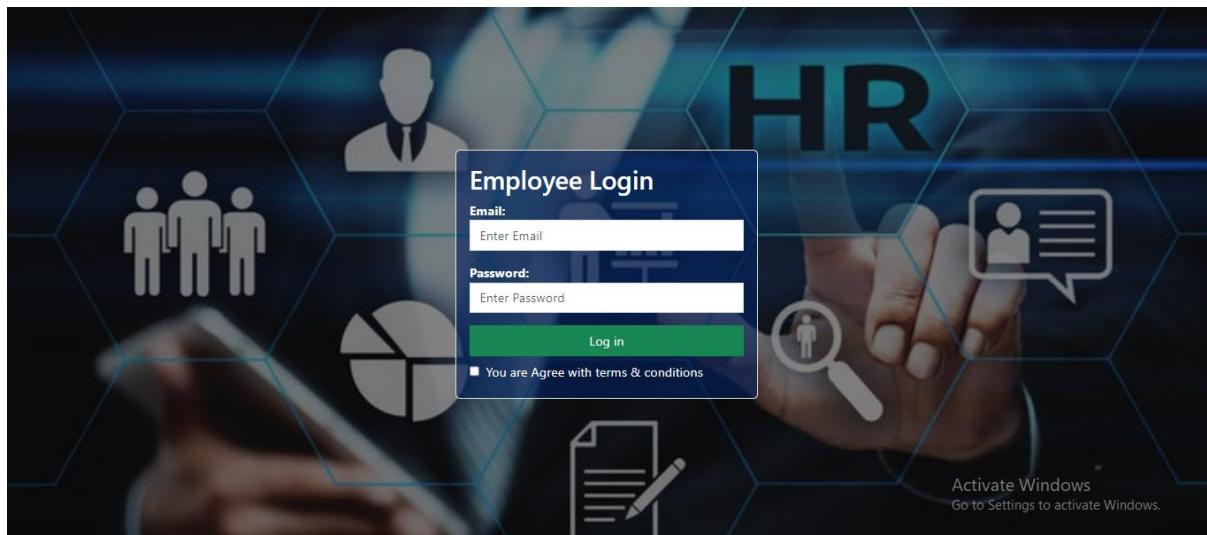
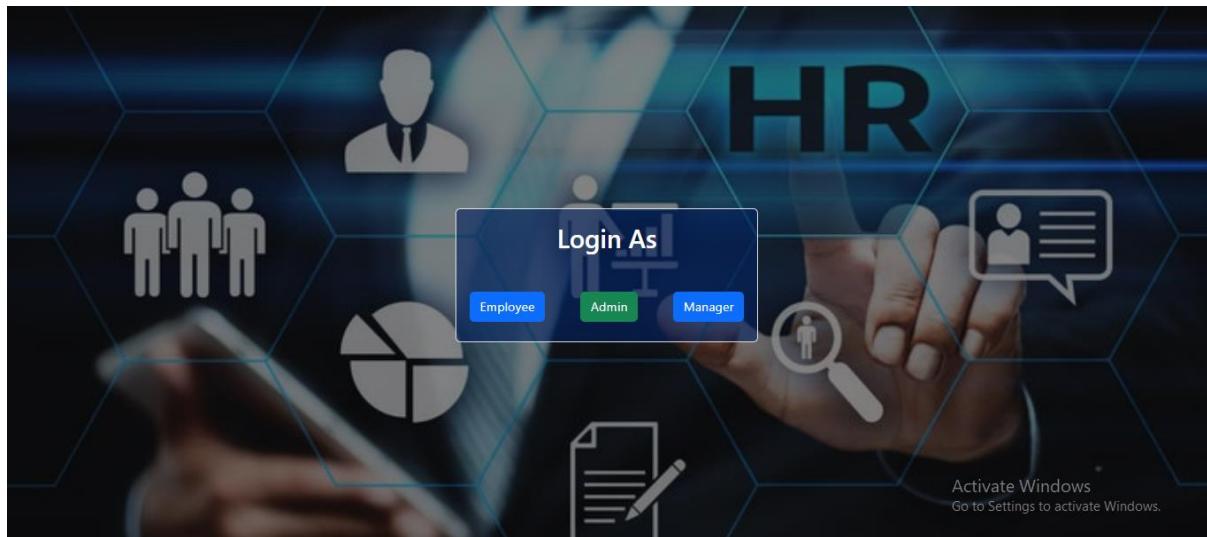
Leave Request Table

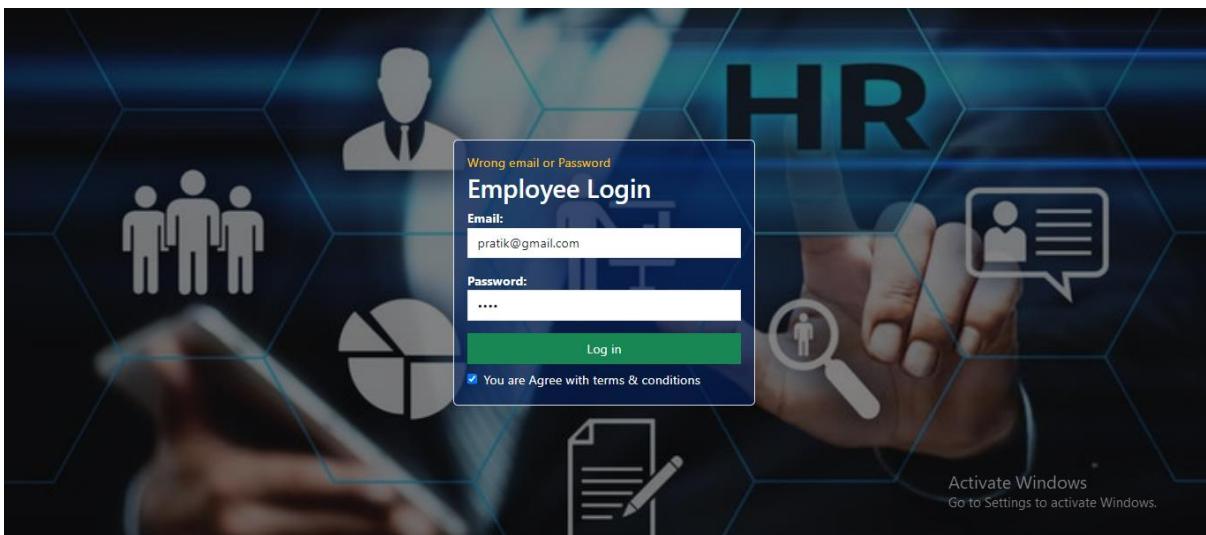
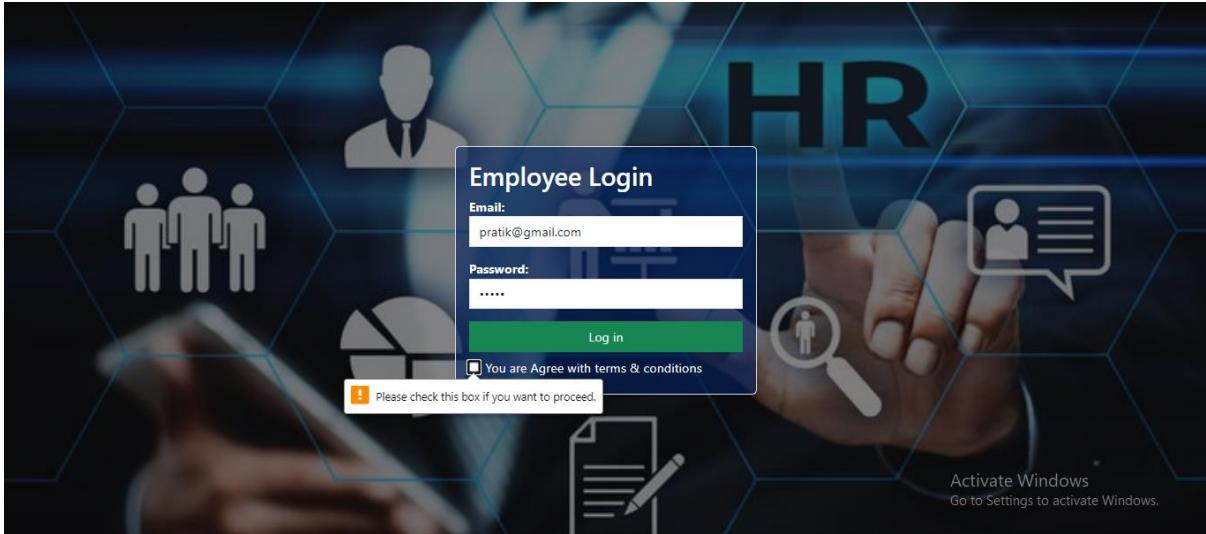
Field	Data Type	Description
LeaveRequestId	INT	Unique identifier for each leave request
Employee Name	VARCHAR(30)	Leave applied Employee name
Reason	VARCHAR(20)	Reason of leave (e.g., vacation, sick leave)
StartDate	DATE	Start date of the leave request
EndDate	DATE	End date of the leave request
Status	VARCHAR(20)	Approval status (e.g., approved, decline)

8. Implementation & Testing

8.1 Screen Snapshots

Employee Module





Employee Management System

pratik@gmail.com



Leave Status
your Leave Approve

Name: pratik kharva
Email: pratik@gmail.com
Salary: ₹100000

[Logout](#) [Apply Leave](#)

Activate Windows
Go to Settings to activate Windows.



Leave Status
your Leave Approve

Name: pratik kharva
Email: pratik@gmail.com
Salary: ₹100000

[Logout](#) [Apply Leave](#)

Activate Windows
Go to Settings to activate Windows.

Add Leave

Name

Enter Name

Email

Enter Email

Start date

dd-mm-yyyy



End date

dd-mm-yyyy



Reason of Leave

Enter Reason....

[Apply Leave](#)

Activate Windows
Go to Settings to activate Windows.

Add Leave

Name

pratik kharva

Email

pratik@gmail.com

Start date

28-03-2024



End date

28-03-2024



Reason of Leave

Personal Reason

[Apply Leave](#)

Activate Windows
Go to Settings to activate Windows.

localhost:5173/addleave

localhost:5173 says
Leave Applied

pratik@gmail.com

Name
pratik kharva

Email
pratik@gmail.com

Start date
28-03-2024

End date
28-03-2024

Reason of Leave
Personal Reason

Apply Leave

Activate Windows
Go to Settings to activate Windows.

Employee Management System

pratik@gmail.com



Leave Status Done
your Leave Approve

Name: pratik kharva
Email: pratik@gmail.com
Salary: ₹100000

Logout Apply Leave

Activate Windows
Go to Settings to activate Windows.

Employee Management System

pratik@gmail.com



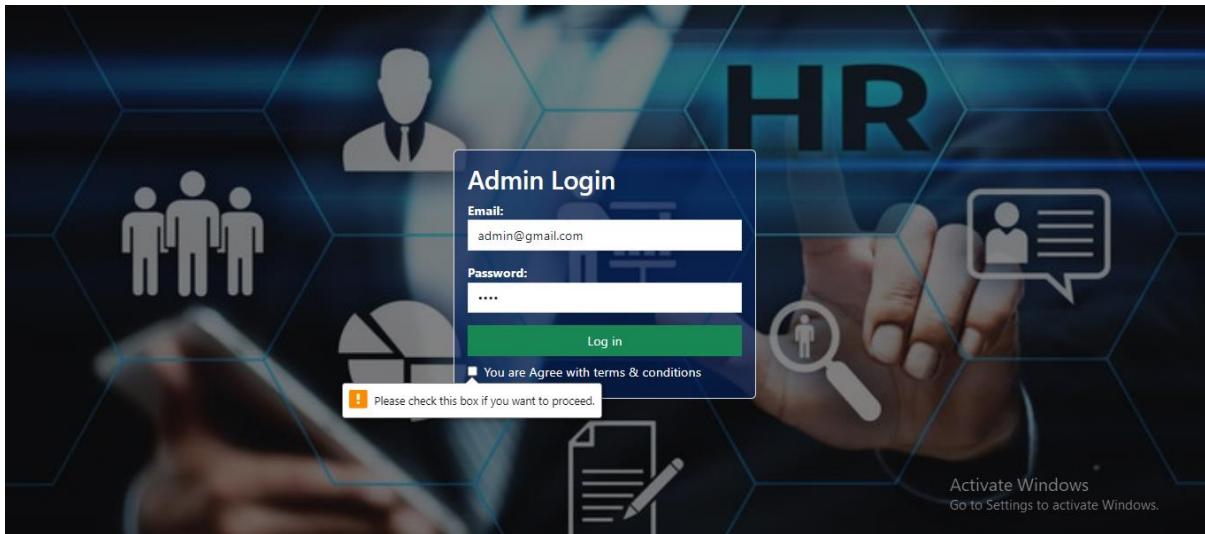
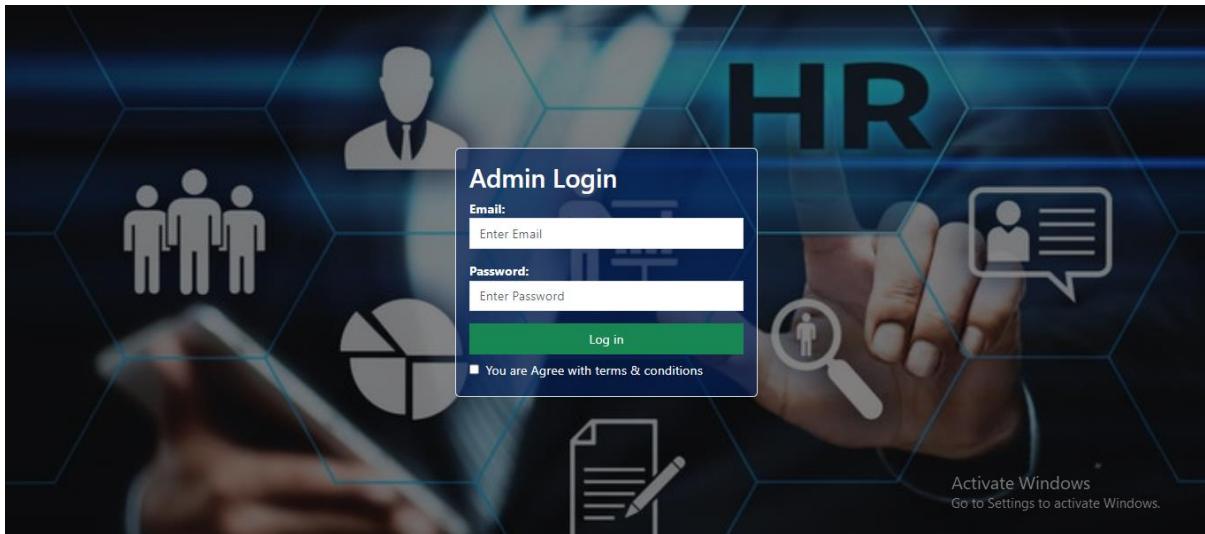
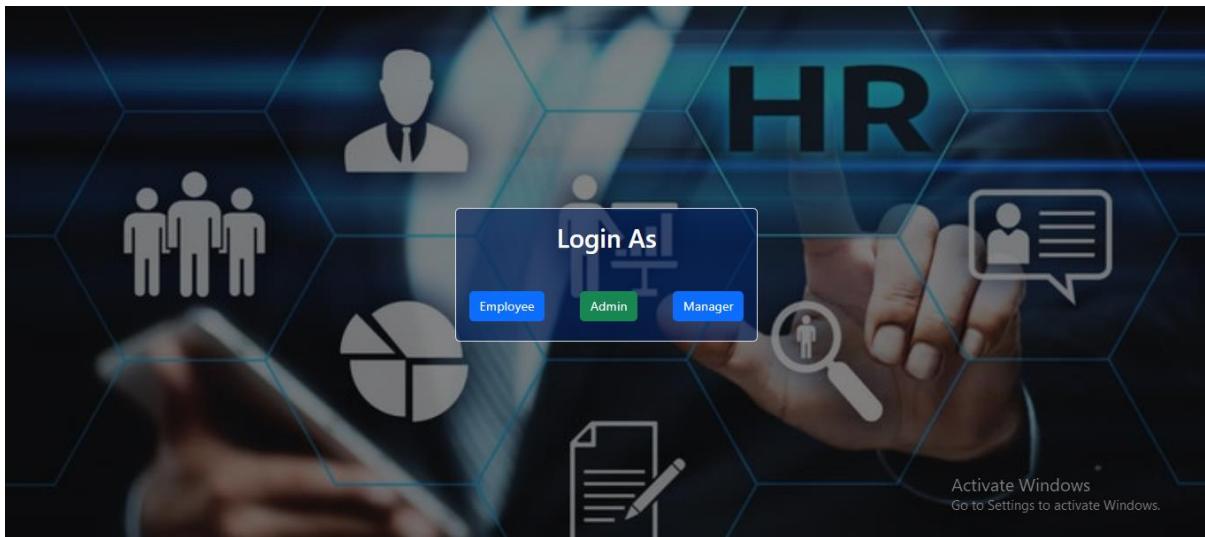
Leave Status Done
your Leave Approve

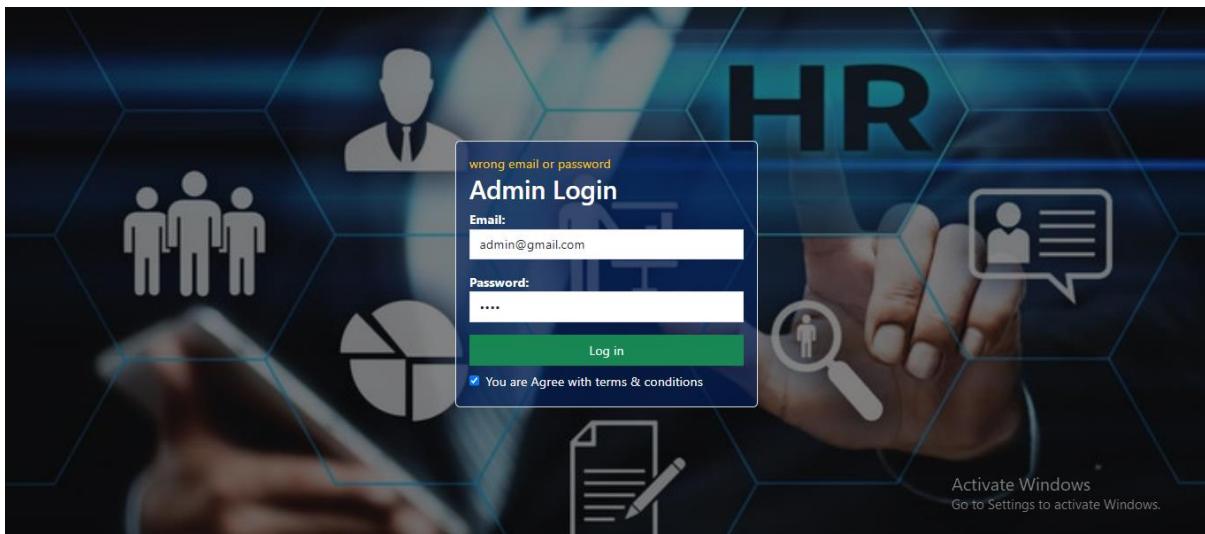
Name: pratik kharva
Email: pratik@gmail.com
Salary: ₹100000

Logout Apply Leave

Activate Windows
Go to Settings to activate Windows.

Admin Module





Sparrow With EMS

Employee Management System admin@gmail.com

Admin 12345 **Employee** **Manager** **Salary**

Total:	3	Total:	4	Total:	4	Total:	₹ 201123
--------	---	--------	---	--------	---	--------	----------

[Add Admin](#)

List of Admins

Email	Action
admin@gmail.com	Edit Delete
sparrow_admin@gmail.com	Edit Delete
pratikadmin@gmail.com	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

Admin 12345 **Employee** **Manager** **Salary**

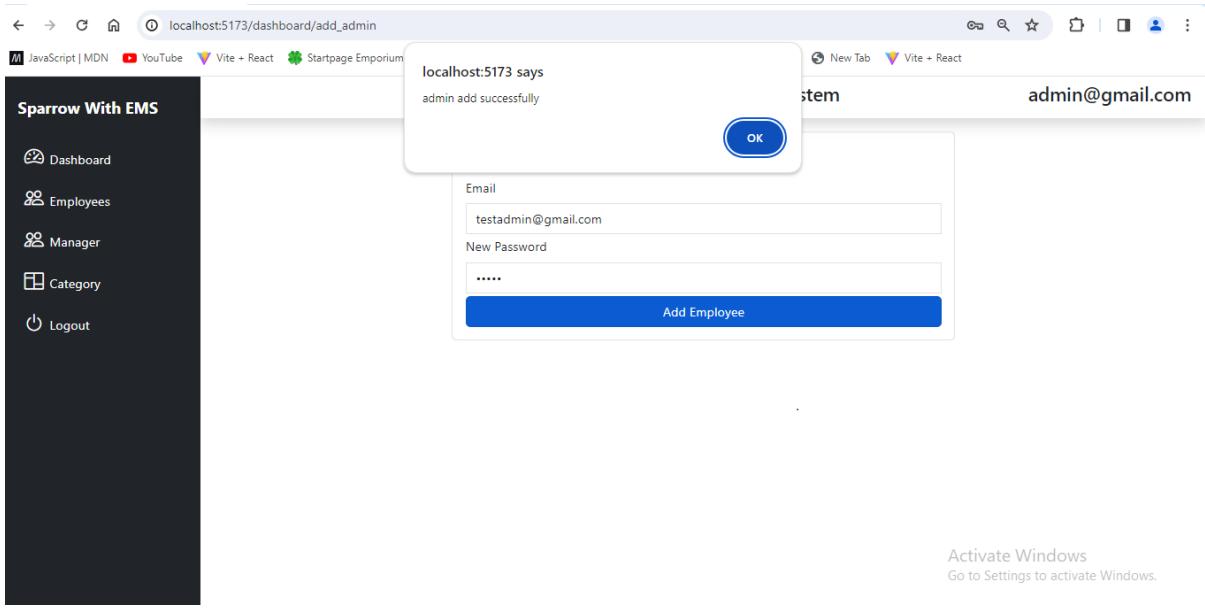
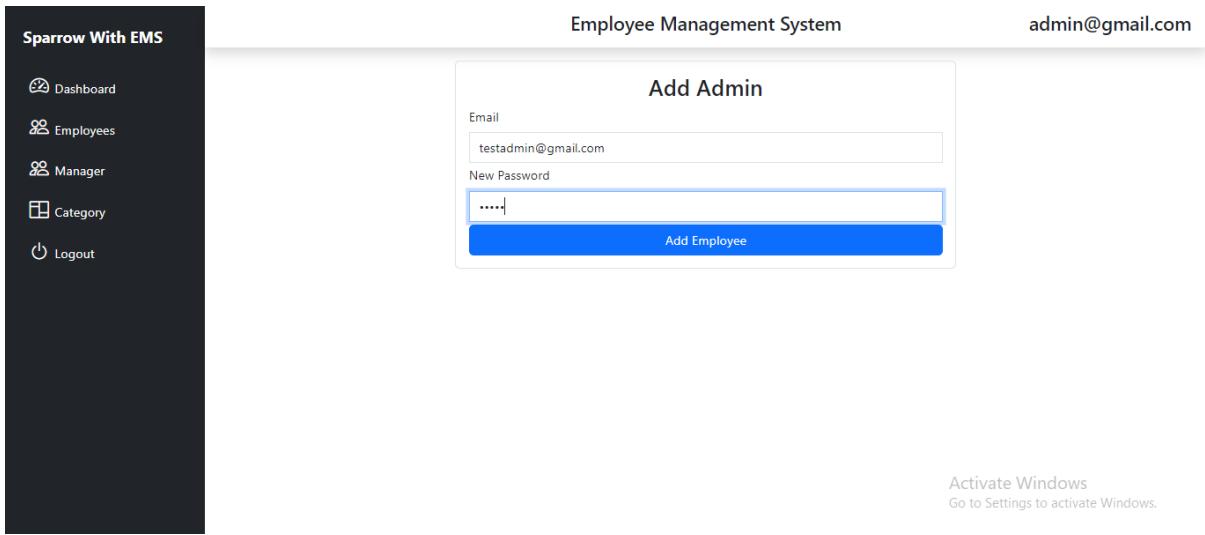
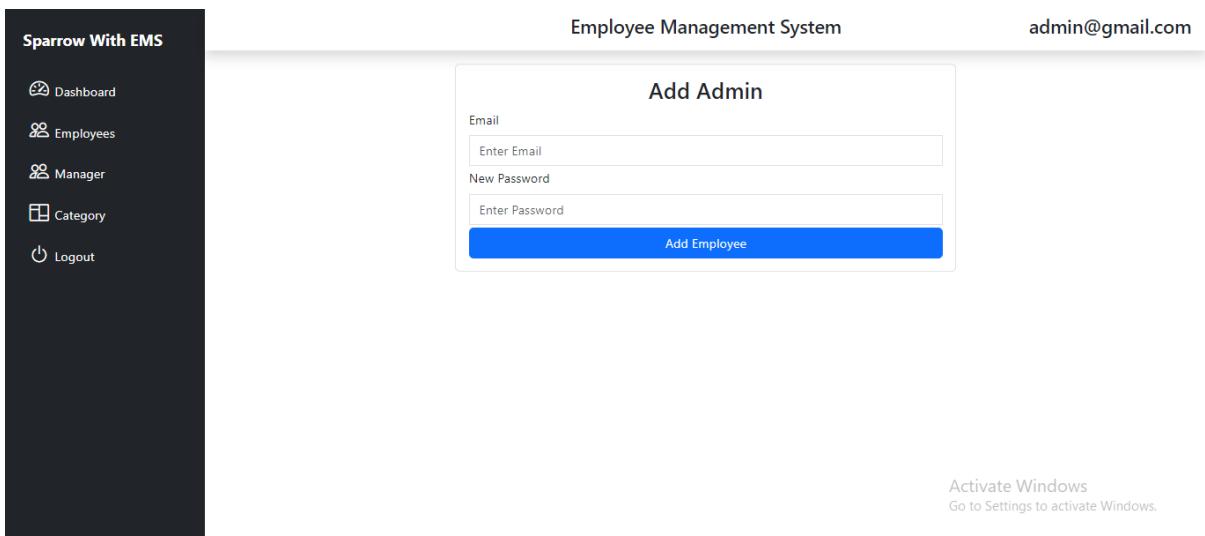
Total:	3	Total:	4	Total:	4	Total:	₹ 201123
--------	---	--------	---	--------	---	--------	----------

[Add Admin](#)

List of Admins

Email	Action
admin@gmail.com	Edit Delete
sparrow_admin@gmail.com	Edit Delete
pratikadmin@gmail.com	Edit Delete

Activate Windows
Go to Settings to activate Windows.



Sparrow With EMS

Employee Management System admin@gmail.com

Admin 12345	Employee	Manager	Salary
Total: 4	Total: 3	Total: 4	Total: ₹ 201000

[Add Admin](#)

List of Admins

Email	Action
admin@gmail.com	Edit Delete
sparrow_admin@gmail.com	Edit Delete
pratikadmin@gmail.com	Edit Delete
testadmin@gmail.com	Edit Delete

[Activate Windows](#)
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

[Add Employee](#)

Employee List

Name	Image	Email	Address	Salary	Action
sparrow		sparrow@gmail.com	vadodara	1000	Edit Delete
parvez		parvez@gmail.com	vadodara	100000	Edit Delete
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete
test		test@gmail.com	adf	123	Edit Delete

[Activate Windows](#)
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

[Add Employee](#)

Name

Email

Password

Salary

Address

Category

Select Image

[Add Employee](#)

[Activate Windows](#)
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System

admin@gmail.com

Add Employee

Name	<input type="text" value="test"/>
Email	<input type="text" value="test@gmail.com"/>
Password	<input type="password" value="....."/>
Salary	<input type="text" value="15000"/>
Address	<input type="text" value="DDU"/>
Category	<input type="text" value="Software Developer"/>
Select Image	<input type="file" value="Choose File download.jpg"/>
Add Employee	

Activate Windows
Go to Settings to activate Windows.

localhost:5173/dashboard/add_employee

Sparrow With EMS

localhost:5173 says
employee add successfully..

Add Employee

Name	<input type="text" value="test"/>
Email	<input type="text" value="test@gmail.com"/>
Password	<input type="password" value="....."/>
Salary	<input type="text" value="15000"/>
Address	<input type="text" value="DDU"/>
Category	<input type="text" value="Software Developer"/>
Select Image	<input type="file" value="Choose File download.jpg"/>
Add Employee	

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System

admin@gmail.com

Employee List

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete
test		test@gmail.com	DDU	15000	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Employee List

Name	Image	Email	Address	Salary	Action
sparrow		sparrow@gmail.com	vadodara	1000	<button>Edit</button> <button>Delete</button>
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
employee test		test@gmail.com	DDU	1000000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

localhost:5173/dashboard/edit_employee/43

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

localhost:5173 says
Edit employee successfully..

Employee Management System

admin@gmail.com

OK

Edit Employee

Name	<input type="text" value="test 1"/>
Email	<input type="text" value="test@gmail.com"/>
Salary	<input type="text" value="20000"/>
Address	<input type="text" value="DDU"/>
Category	<input type="text" value="Software Developer"/>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Employee List

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
sparrow		sparrow@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
test 1		test@gmail.com	DDU	20000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

Employee List

Name	Image	Email	Address	Salary	Action
sparrow		sparrow@gmail.com	vadodara	1000	<button>Edit</button> <button>Delete</button>
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
employee test		test@gmail.com	DDU	1000000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

Edit Employee

Name: employee test

Email: test@gmail.com

Salary: 1000000

Address: DDU

Category: Software Developer

Edit Employee

Activate Windows
Go to Settings to activate Windows.

localhost:5173/dashboard/edit_employee/43

localhost:5173 says Edit employee successfully..

OK

Sparrow With EMS

Employee Management System admin@gmail.com

Edit Employee

Name: test 1

Email: test@gmail.com

Salary: 20000

Address: DDU

Category: Software Developer

Edit Employee

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Employees Manager Category Logout

Employee Management System admin@gmail.com

Manager List

Name	Image	Email	Address	Salary	Action
pratikManager		pratikmanager@gmail.com	vadodara1	100002	<button>Edit</button> <button>Delete</button>
manager 1		manager@gmail.com	DDU	10000	<button>Edit</button> <button>Delete</button>
manager1		manager1@gmail.com	DDU	5000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Employees Manager Category Logout

Employee Management System admin@gmail.com

Add Manager

Name	<input type="text" value="Enter Name"/>
Email	<input type="text" value="Enter Email"/>
Password	<input type="text" value="Enter Password"/>
Salary	<input type="text" value="Enter Salary"/>
Address	<input type="text" value="Enter Address"/>
Select Image	<input type="file" value="Choose File"/> No file chosen

Add Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Employees Manager Category Logout

Employee Management System admin@gmail.com

Add Manager

Name	<input type="text" value="manager test"/>
Email	<input type="text" value="manager.test@gmail.com"/>
Password	<input type="text" value="....."/>
Salary	<input type="text" value="100000"/>
Address	<input type="text" value="DDU"/>
Select Image	<input type="file" value="Choose File"/> images (3).jpg

Add Manager

Activate Windows
Go to Settings to activate Windows.

localhost:5173/dashboard/add_manager

JavaScript | MDN YouTube Vite + React Startpage Emporium

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

localhost:5173 says
Add Manager successfully..

OK

Name	manager test
Email	manager.test@gmail.com
Password
Salary	100000
Address	DDU
Select Image	Choose File images (3).jpg
Add Manager	

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

Manager List

Add Manager

Name	Image	Email	Address	Salary	Action
pratikManager		pratikmanager@gmail.com	vadodara1	100002	<button>Edit</button> <button>Delete</button>
manager 1		manager@gmail.com	DDU	10000	<button>Edit</button> <button>Delete</button>
manager1		manager1@gmail.com	DDU	5000	<button>Edit</button> <button>Delete</button>
manager test		manager.test@gmail.com	DDU	100000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System admin@gmail.com

Manager List

Add Manager

Name	Image	Email	Address	Salary	Action
pratikManager		pratikmanager@gmail.com	vadodara1	100002	<button>Edit</button> <button>Delete</button>
manager 1		manager@gmail.com	DDU	10000	<button>Edit</button> <button>Delete</button>
manager1		manager1@gmail.com	DDU	5000	<button>Edit</button> <button>Delete</button>
manager test		manager.test@gmail.com	DDU	100000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Edit Manager

Name: manager test

Email: manager.test@gmail.com

Salary: 100000

Address: DDU

Edit Manager

Activate Windows
Go to Settings to activate Windows.

localhost:5173/dashboard/edit_manager/13

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

localhost:5173 says
Edit manager data successfully

OK

Name: manager test1

Email: manager.test@gmail.com

Salary: 100000

Address: DDU

Edit Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Manager List

Name	Image	Email	Address	Salary	Action
pratikManager		pratikmanager@gmail.com	vadodara1	100002	Edit Delete
manager 1		manager@gmail.com	DDU	10000	Edit Delete
manager1		manager1@gmail.com	DDU	5000	Edit Delete
manager test1		manager.test@gmail.com	DDU	100000	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Category List

Name	Action
Developer	Delete
Software Developer	Delete
Marketing	Delete
Data Analysis	Delete

Add Category

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

admin@gmail.com

Add Category

Category:

Add Category

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Employees
- Manager
- Category
- Logout

Employee Management System

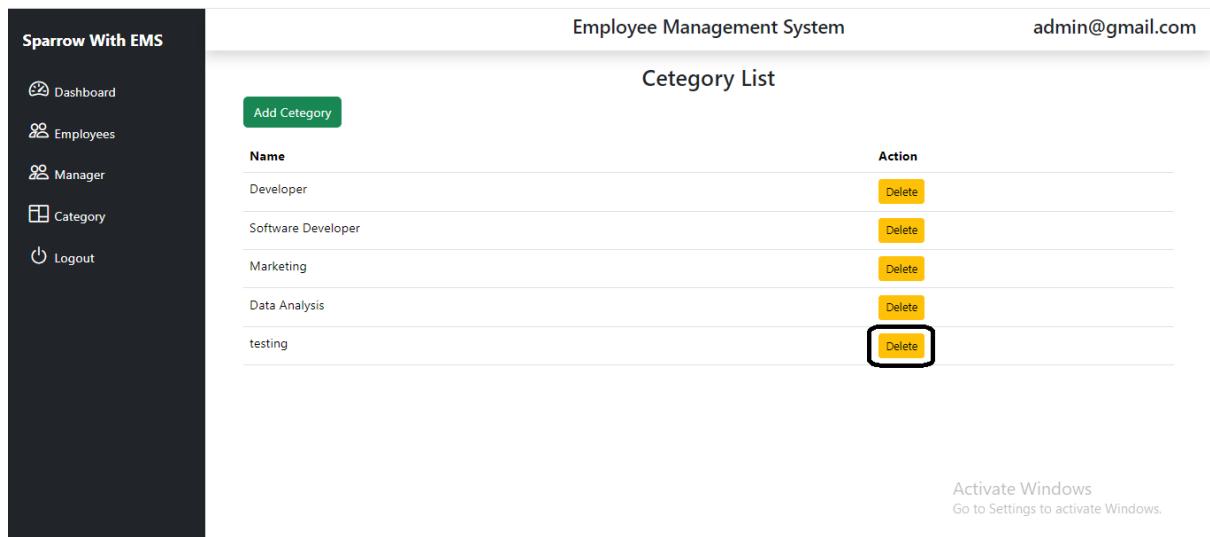
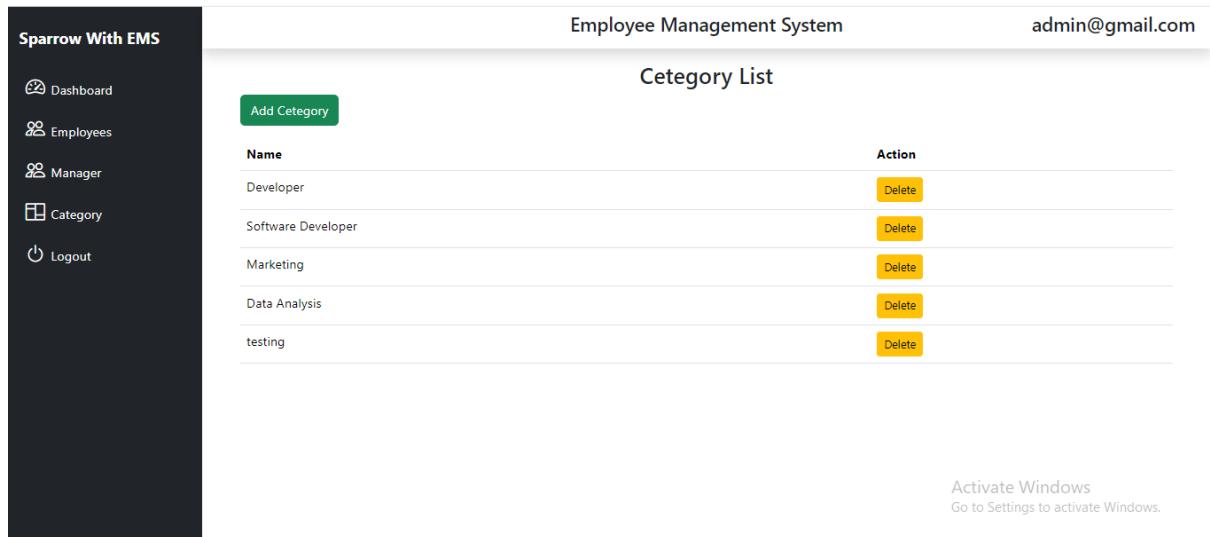
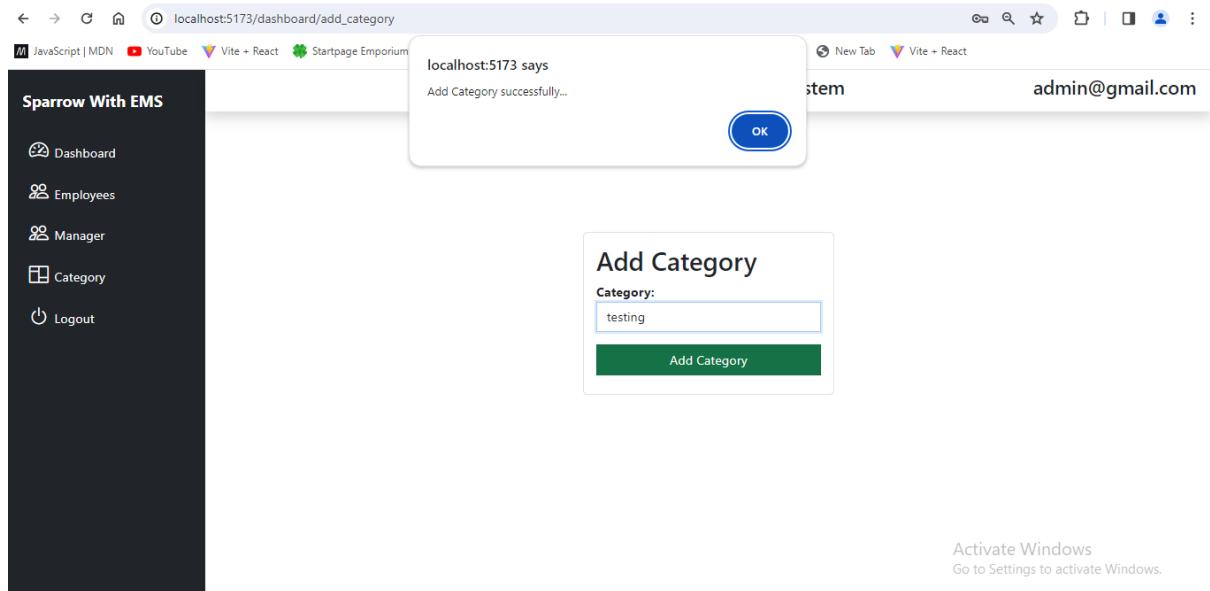
admin@gmail.com

Add Category

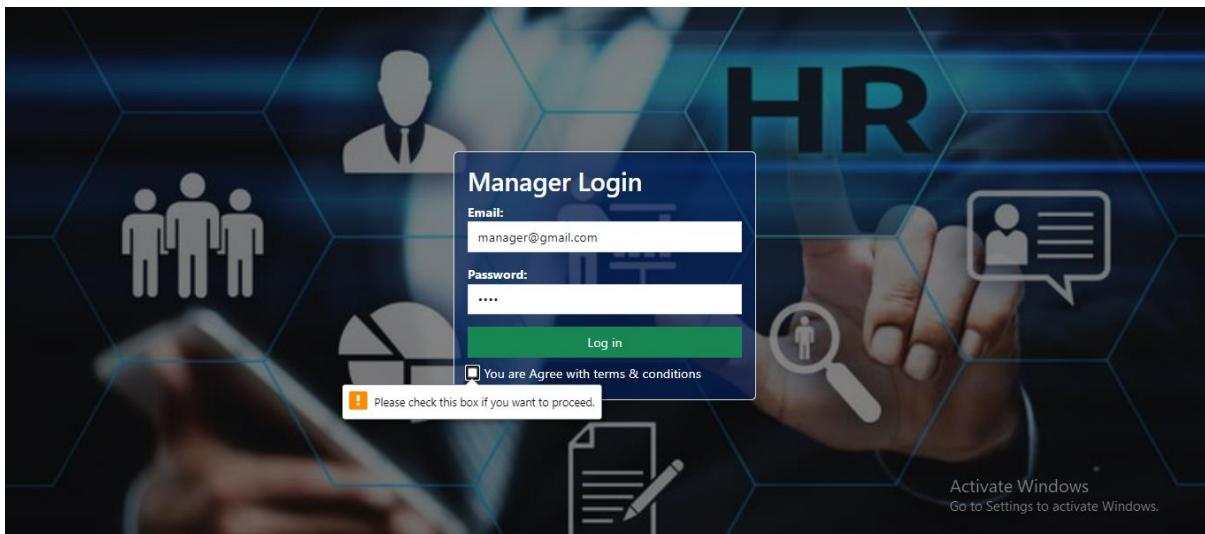
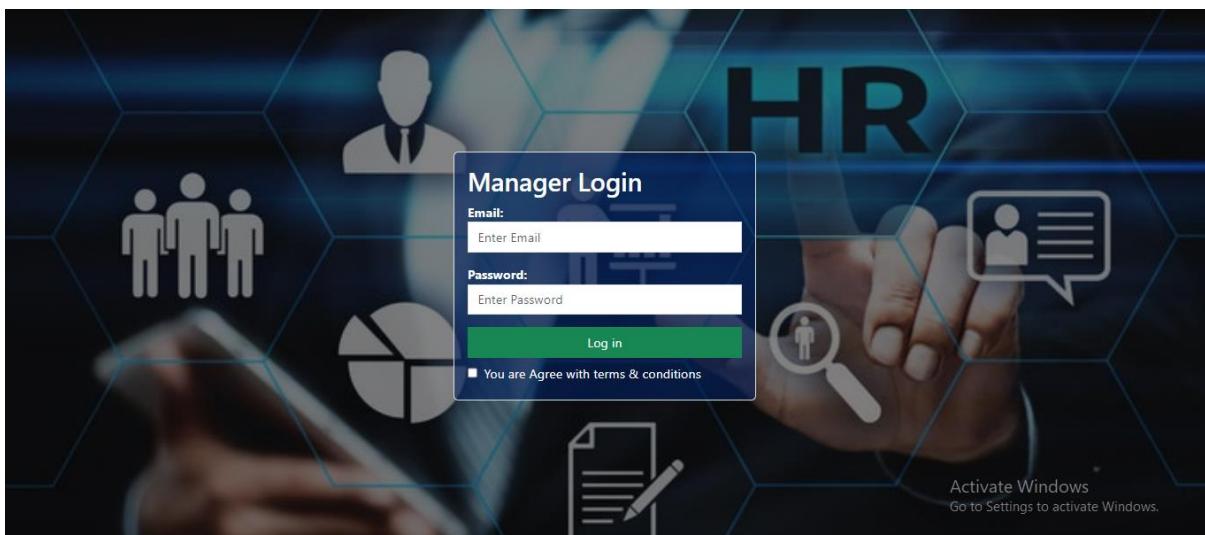
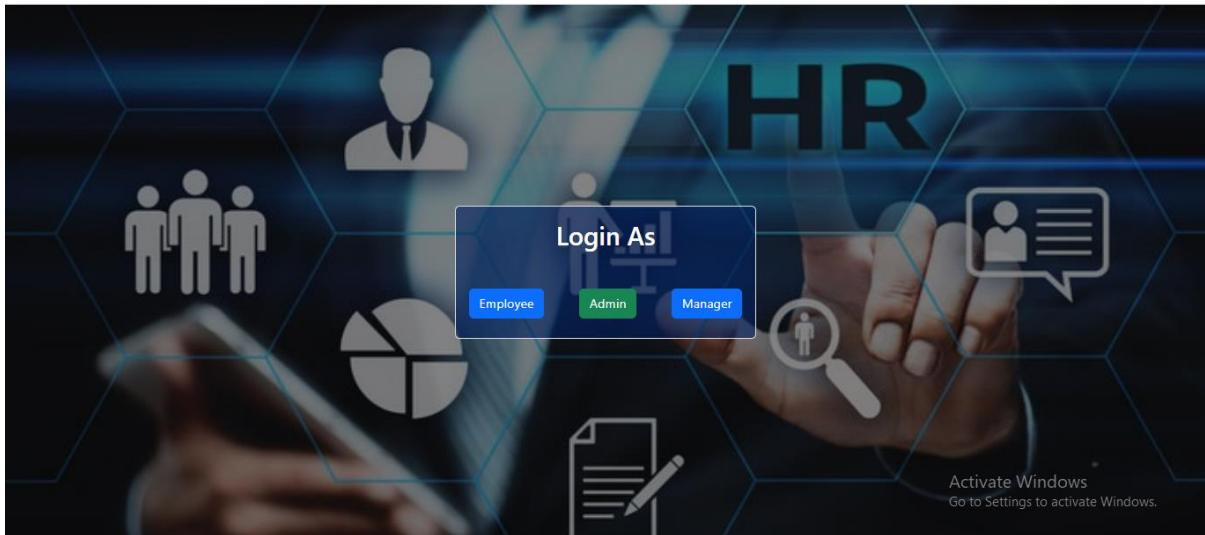
Category:

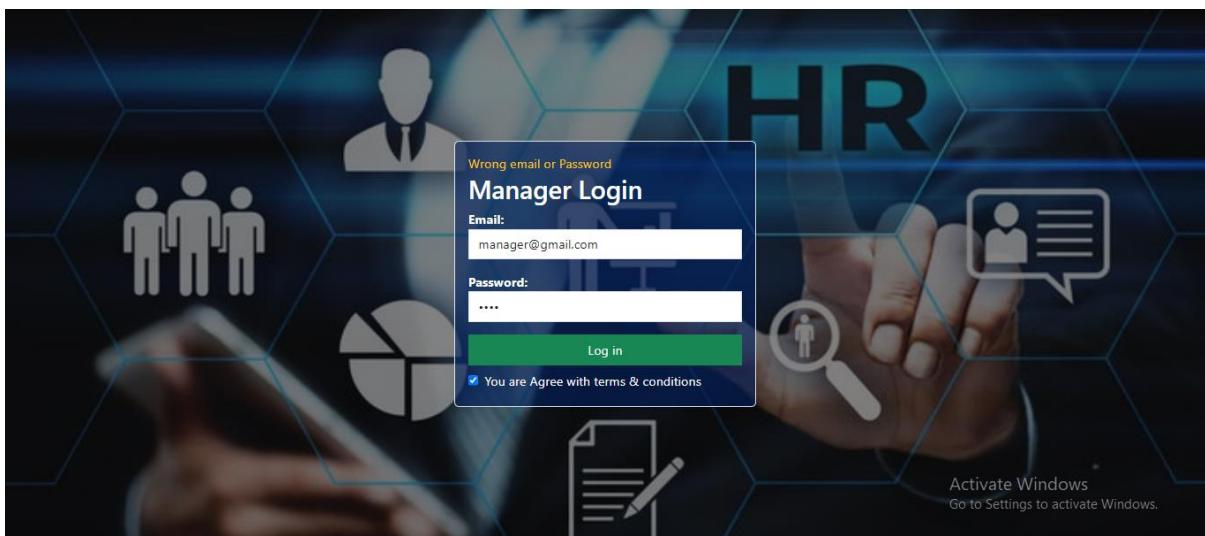
Add Category

Activate Windows
Go to Settings to activate Windows.



Manager Module





Sparrow With EMS

Employee Management System

manager@gmail.com

[Dashboard](#)

[Manage Employee](#)

[Logout](#)

Employee Total: 3

Manager Total: 4

Salary Total: ₹ 201000

[Add Manager](#)

List of Manager

Image	Email	Action
	pratikmanager@gmail.com	Edit Delete
	sparrowmanager@gmail.com	Edit Delete
	suraj@gmail.com	Edit Delete
	manager@gmail.com	Edit Delete <small>Activate Windows Go to Settings to activate Windows.</small>

Sparrow With EMS

Employee Management System

manager@gmail.com

[Dashboard](#)

[Manage Employee](#)

[Logout](#)

[Add Manager](#)

List of Manager

Image	Email	Action
	pratikmanager@gmail.com	Edit Delete
	sparrowmanager@gmail.com	Edit Delete
	suraj@gmail.com	Edit Delete
	manager@gmail.com	Edit Delete <small>Activate Windows Go to Settings to activate Windows.</small>

Sparrow With EMS

Employee Management System manager@gmail.com

Add Manager

Name

Email

Password

Salary

Address

Select Image
 No file chosen

Add Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System manager@gmail.com

Add Manager

Name

Email

Password

Salary

Address

Select Image
 download.jpg

Add Manager

Activate Windows
Go to Settings to activate Windows.

localhost:5173/manager-dashboard/add_manager_dashboard

localhost:5173 says
Add new Manager successfully..

OK

Sparrow With EMS

Employee Management System manager@gmail.com

Add Manager

Name

Email

Password

Salary

Address

Select Image
 download.jpg

Add Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System
manager@gmail.com

Employee Manager Salary

Total: 3 Total: 3 Total: ₹ 201000

Add Manager

List of Manager

Image	Email	Action
	pratikmanager@gmail.com	Edit Delete
	manager@gmail.com	Edit Delete
	manager1@gmail.com	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System
manager@gmail.com

Edit Manager

Name	manager1
Email	manager1@gmail.com
Salary	5000
Address	DDU

Edit Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System
manager@gmail.com

Edit Manager Detail successfully

Edit Manager

Name	manager1
Email	manager1@gmail.com
Salary	5000
Address	DDU

Edit Manager

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Manage Employee
- Logout

Employee Management System

manager@gmail.com

Employee

Total: 3

Manager

Total: 3

Salary

Total: ₹ 201000

[Add Manager](#)

List of Manager

Image	Email	Action
	pratikmanager@gmail.com	Edit Delete
	manager@gmail.com	Edit Delete
	manager1@gmail.com	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Manage Employee
- Logout

Employee Management System

manager@gmail.com

Employee List

[Add Employee](#)

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete
rohan		rohan@gmail.com	DDU	15000	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

- Dashboard
- Manage Employee
- Logout

Employee Management System

manager@gmail.com

Employee List

[Add Employee](#)

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete
rohan		rohan@gmail.com	DDU	15000	Edit Delete

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System

manager@gmail.com

Add Employee

Name

Email

Password

Salary

Address

Category

Select Image
 No file chosen

Add Employee

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Employee Management System

manager@gmail.com

Add Employee

Name

Email

Password

Salary

Address

Category

Select Image
 images (2).jpg

Add Employee

Activate Windows
Go to Settings to activate Windows.

localhost:5173/manager-dashboard/add_employee_manager

localhost:5173 says
Add Employee successfully

OK

Sparrow With EMS

Employee Management System

manager@gmail.com

Add Employee

Name

Email

Password

Salary

Address

Category

Select Image
 images (2).jpg

Add Employee

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Manage Employee Logout

Employee Management System

manager@gmail.com

Employee List

Add Employee

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
sparrow		sparrow@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
rohan		rohan@gmail.com	DDU	15000	<button>Edit</button> <button>Delete</button>
rahul		rahul@gmail.com	DDU	150000	<button>Edit</button> <button>Delete</button>

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Manage Employee Logout

Employee Management System

manager@gmail.com

Edit Employee

Name: rahul
Email: rahul@gmail.com
Salary: 150000
Address: DDU
Category: 12334

Edit Employee

Activate Windows
Go to Settings to activate Windows.

Sparrow With EMS

Dashboard Manage Employee Logout

Edit Employee successfully..

OK

Employee Management System

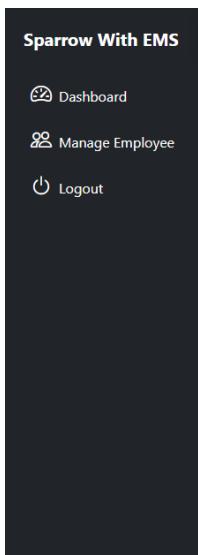
manager@gmail.com

Edit Employee

Name: test 12345
Email: test@gmail.com
Salary: 20000
Address: DDU

Edit Employee

Activate Windows
Go to Settings to activate Windows.



Employee Management System

manager@gmail.com

Employee List

Add Employee

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
sparrow		sparrow@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
rahul		rahul@gmail.com	DDU	150000	<button>Edit</button> <button>Delete</button>

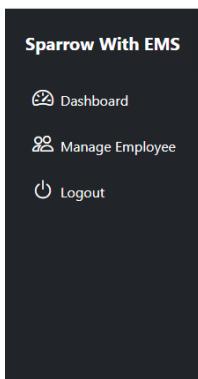
localhost:5173 says
Delete Employee successfully..

OK

manager@gmail.com

Add Employee

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
sparrow		sparrow@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>
rahul		rahul@gmail.com	DDU	150000	<button>Edit</button> <button>Delete</button>



Employee Management System

manager@gmail.com

Employee List

Add Employee

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
pratik kharva		pratik@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button> <button>Approval Leave</button> <button>Decline Leave</button>
sparrow		sparrow@gmail.com	vadodara	100000	<button>Edit</button> <button>Delete</button>

localhost:5173/manager-dashboard/list_employee_manager

Sparrow With EMS

Dashboard Manage Employee Logout

Add Employee

localhost:5173 says
Leave approved...

OK

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete

Employee Management System

manager@gmail.com

Sparrow With EMS

Dashboard Manage Employee Logout

Add Employee

Employee List

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete

localhost:5173/manager-dashboard/list_employee_manager

Sparrow With EMS

Dashboard Manage Employee Logout

Add Employee

localhost:5173 says
Leave Decline..

OK

Name	Image	Email	Address	Salary	Action
parvez		parvez@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
pratik kharva		pratik@gmail.com	vadodara	100000	Edit Delete Approval Leave Decline Leave
sparrow		sparrow@gmail.com	vadodara	100000	Edit Delete

8.2 Testing

8.4.1 Test Strategy

An employee management system or EMS is a tool that helps improve employee satisfaction and productivity to help a company achieve their overall goals. These tools help monitor, assess and control employees' working hours and efficiently utilize human resources. It ensures that Manager efficiently manages each employee's and disburses salaries on time. An EMS securely stores and manages the personal and work-related details of employees. So, while checking Test cases I have used 'Unit test strategy' where analysing various artefacts taken place. It includes employee management requirements, design, manage employee profile data, Leave management etc.

8.4.2 Test Cases and Results

Admin Test Cases

S.r.no.	Description	Test steps	Expected result	Example	Actual status	Result
1.	Admin Verify Loginpage	Start System	Log in page display	Credentials. admin@gmail.com admin@12345	Login page displayed	Pass
		Enter valid credentials	User logged in successfully		User logged in successfully	
		Click on login button	Employee Dashboard displayed		Employee Dashboard displayed	
2.	Add Admin	Start system	Log in page display	New Admin	Login page display	Pass
		Admin have to login	If authenticate Admin found , display Employee Dashboard		Employee Dashboard displayed	
		Click on 'Add Admin' button	Admin form displayed		Admin form displayed	
			Fill the form		Data filled	
		Click on 'Add admin' button	Admin added to the Admin list		Admin added to the Admin list	
3.	Edit Admin	Start system	Log in page display	Edit Admin	Login page display	Pass
		Admin have to login	If authenticate Admin found , display Employee Dashboard		Employee Dashboard displayed	
		Click on 'Edit Admin' button	Edit Admin form displayed		Edit Admin form displayed	
			Fill the form		Data filled	

		Click on 'Edit admin' button	Admin Edited		Admin Edited	
4.	Add new Employee	Start System	Login page display	New Employee	Login page Displayed	Pass
		Click on employees said Nev	Display employee list		Display employee list	
		Click on Add Employee button	Display add employee form		Display add employee from	
			Fill the form		Fill the form	
		Click add employee button	Add new employee		Add employee	
5.	Delete employee	Start system	Login page display	Delete Employee	Login page displayed	Pass
		Click on employee said Nev	Display dashboard employee list		Display employee list	
		Click on delete button	Employee delete in to list		Employee delete in to list	
6.	Add new Manager	Start System	Login page display	New Manager	Login page Displayed	Pass
		Click on employees said Nev	Display manager list		Display manager list	
		Click on Add manager button	Display add manager form		Display add manager from	
			Fill the form		Fill the form	
		Click add manager button	Add new manager		Add manager	
7.	Delete Manager	Start system	Login page display	Delete Manager	Login page displayed	Pass
		Click on manager said Nev	Display dashboard manager list		Display manager list	
		Click on delete button	Manager delete in to list		Manager delete in to list	

Employee Test Cases

S.r.no.	Description	Test steps	Expected result	Example	Actual status	Result
1.	Employee Verify Loginpage	Start system	Login page display	Credentials. employee@gm ail.com employee@12345	Login page displayed	Pass
		Enter valid credentials	User logged in successfully		User logged in successfully	
		Click on login button	Employee Dashboard displayed		Employee Dashboard displayed	
2.	Check Employee details	Employee have to login	Log in successful		Log in successful	Pass
			Employee profile page opened		Employee profile page opened	
			Details displayed		Details displayed	
3.	Employee can apply for leave	Employee have to login	Log in successful	For apply leave	Log in successful	Pass
			Employee profile page opened		Employee profile page opened	
		Click on 'Apply leave'	Leave form opened		Leave form opened	
			Data insert into form		Data insert into form	
		Click on 'Apply leave' button	Leave apply		Leave apply	

		Leave approve or reject status	Leave status displayed on Employee's profile page		Leave status displayed on Employee's profile page	
4.	Log out Employee	Click on 'Log out' button	Employee Dashboard closed	Log out employee	Employee Dashboard closed	Pass

Manager Test Cases

S.r.no.	Description	Test steps	Expected result	Example	Actual Status	Result
1.	Manager Verify Loginpage	Start system	Login page display	Credentials. manager@gamil.com manager@123	Login page displayed	Pass
		Enter valid credentials	User logged in successfully		User logged in successfully	
		Click on login button	Manager Dashboard displayed		Manager Dashboard displayed	
2.	Add new Employee	Start System	Login page display	New Employee	Login page Displayed	Pass
		Click on employees said Nev	Display employee list		Display employee list	
		Click on Add Employee button	Display add employee form		Display add employee from	
3.			Fill the form		Fill the form	
		Click add employee button	Add new employee		Add employee	
4.	Delete employee	Start system	Login page display	Delete Employee	Login page displayed	Pass
		Click on employee said Nev	Display dashboard employee list		Display employee list	

		Click on delete button	Employee delete in to list		Employee delete in to list	
5.	Add new Manager	Start System	Login page display	New Manager	Login page Displayed	Pass
		Click on employees said Nev	Display manager list		Display manager list	
		Click on Add manager button	Display add manager form		Display add manager from	
			Fill the form		Fill the form	
		Click add manager button	Add new manager		Add manager	
6.	Delete Manager	Start system	Login page display	Delete Manager	Login page displayed	Pass
		Click on manager said Nev	Display dashboard manager list		Display manager list	
		Click on delete button	Manager delete in to list		Manager delete in to list	
7.	Leave approved / Decline	Start system	Login page display	Leave Request	Login page display	Pass
		Click on employees said Nev	Display manager list		Display manager list	
		Click on Approval Leave button	Leave approved successfully		Leave approved successfully	
		Click on Decline Leave button	Leave Decline successfully		Leave decline successfully	

9 Future Enhancement

Export and Import Reports: Allow managers and employees to export their reports in a proper format such as PDF, CSV etc. As well as import the external data to system which make easy to insert data for managers.

Demo-graphical representation: Users (Employee, admin, managers) can see graphical representation of reports. Reports may have attendance report, salary report, growth report etc.

Add Calendar: Add calendar to the system which show holidays as well as meeting schedules, task backlogs etc.

Sensation: Add sensation to the system on which Users (Employee, admin, managers) can upload post, quotes, pictures, videos. Where other employees can post comments also.

10 Bibliography

✓ Employee management guide Project management institute(2022)

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