

# Employee Management System

BY - RISHITA AGARWAL 220150016



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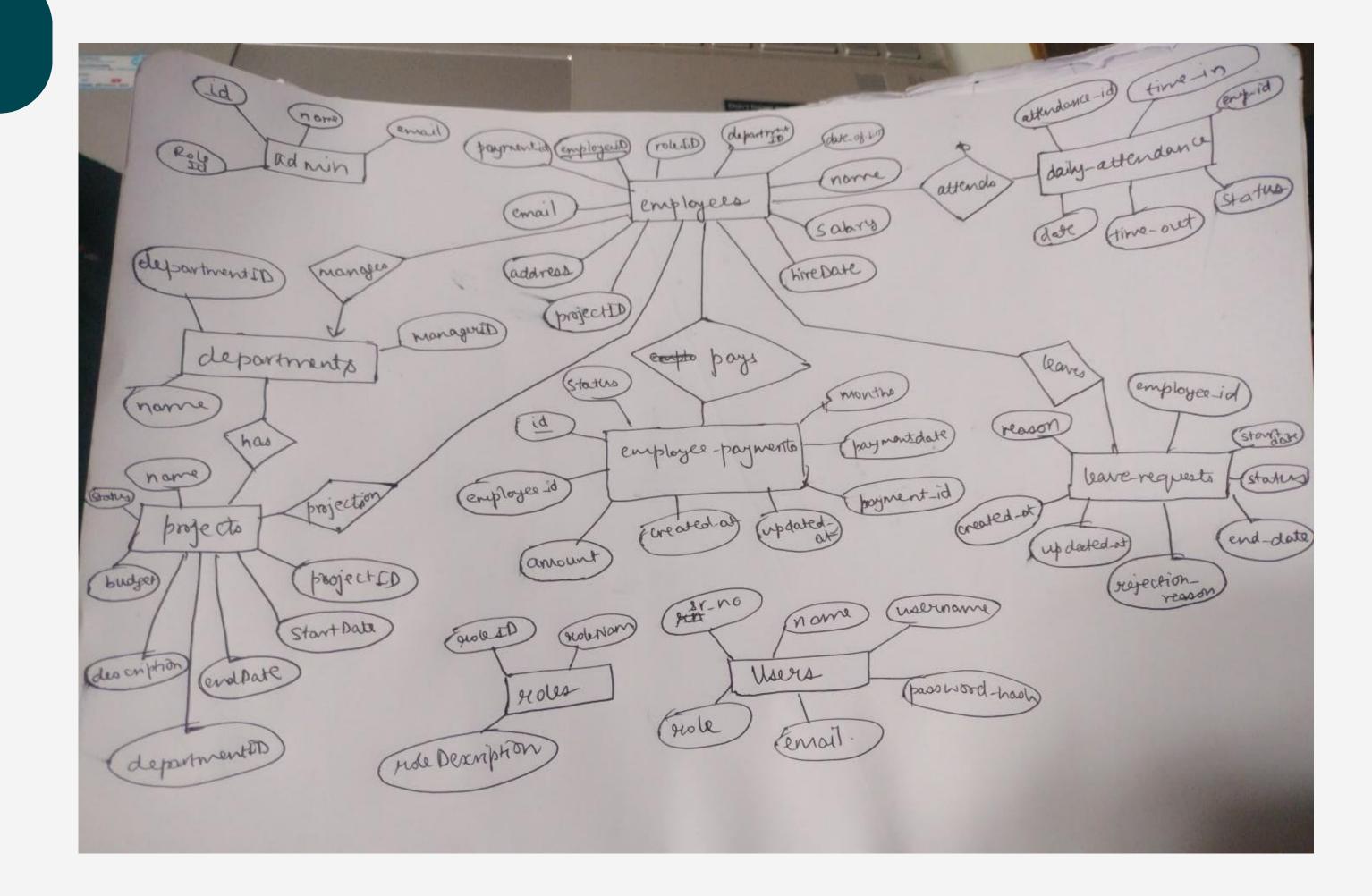


# Problem<br/>Statement

The problem statement of an Employee Management System (EMS) outlines the key issues that the system aims to resolve and the goals it strives to achieve in managing employee data within an organization. This system is generally designed to streamline and enhance the management of employee information, which includes personal details, job-related data, payroll, attendance of the employees etc.



#### **ER DIAGRAM**





### Database Management

### Overview of schema

Supports CRUD (Create, Read, Update, Delete) operations for employee records

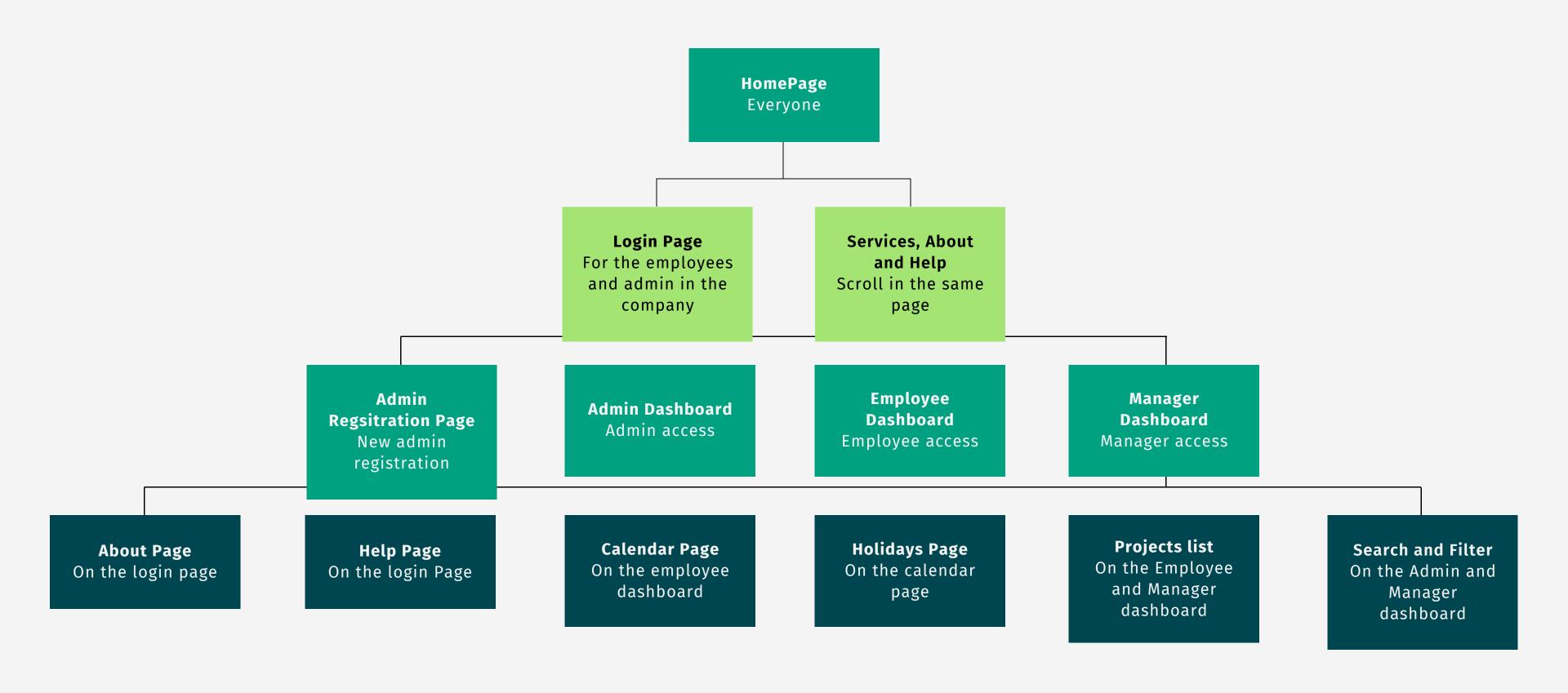
#### • Tables:

- **Employees**: Contains personal and professional details of employees.
- **Departments**: Lists departments within the organization.
- **Roles**: Defines various roles assigned to employees.
- Projects: Manages ongoing and completed projects.
- **Leaves**: Manages the leaves of an employee with the employee ID.

#### • Relationships:

- One-to-many between Departments and Employees.
- One-to-many between Roles and Employees.
- o Many-to-many between Employees and Projects facilitated through a junction table.

### Pages and Content





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### Roles



### **Admin**

Main management of the entire system, keeps track of all the employees and managers in the company. Have access to all the available data.

### Manager

Manager of each department have access to all the data of the employees in their respective departments

### **Employee**

Employees can see their projects info, the calendar pages but can't see the data/info of any employee other than themselves.

# Login and Admin Registration

# Username and Password Login

### Admin Details for registration

### About and Help page

### Go back to HomePage

- Users can enter their username and password to log into the system.
- Access granted only to the verified users.
- Administrative users can create their accounts or register new admin profiles.
- It might involve entering detailed information such as names, email etc. for people who will manage.
- Provides help resources,
   FAQs and contact details for support.
- Aids users in navigating the application and resolving any issues they encounter.
- This is a navigation
   feature allowing users to
   return to the homepage
   of the application at any
   point.
- It enhances user experience.

LOGIN AND ADMIN REGISTER

app.post('/', (req, res) => {

app.post('/register', async (req, res) => {

### Login

- The username and password are authenticated from the users table.
- The session user details are set to the person logged in.

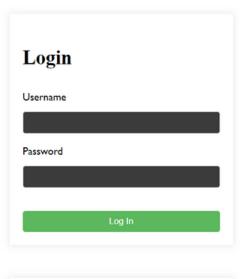
### **Admin Register**

- A new admin is registered entering the required details.
- The entered details update the admin table and the users table with the registered information.

#### Calls used

 app.post() calls are used as tables are to filled with the information entered TechSolutions Inc.

Go to Homepage About Help



Register New Admin

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Go to Login

Go Back to Home

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### **Admin Dashboard**

### **Attendance Management**

### **Employee Registration**

### Show **Employees**

### Personal Info and Logout

- This section is designed to handle the recording and monitoring of employee attendance.
- Check-ins and checkouts, real-time attendance reporting, and analytics to monitor
- Onboarding new employees into the company's system.
- Registration process
   through automated forms,
   ensuring new hires are
   systematically added to the
   company's database.
- Search and Filter option
   which let the admin to
   view list or profiles of all
   employees based on
   department or roles.
- Easy access to all employees info.

- Personal info of the employee is displayed on the page.
- Logout feature to go back to the login page.

ADMIN DASHBOARD

```
app.post('/register-employee', async (req, res) => {
    app.get('/get-admin-info', (req, res) => {
    app.post('/attendance-entry', (req, res) => {
     app.post('/attendance-exit', (req, res) => {
     app.get('/search-employees', (req, res) => {
      app.get('/filter-employees', (req, res) => {
         app.get('/filter-employees', (req, res) => {
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         app.get('/filter-employees', (req, res) => {
         app
```

### **Employee registration**

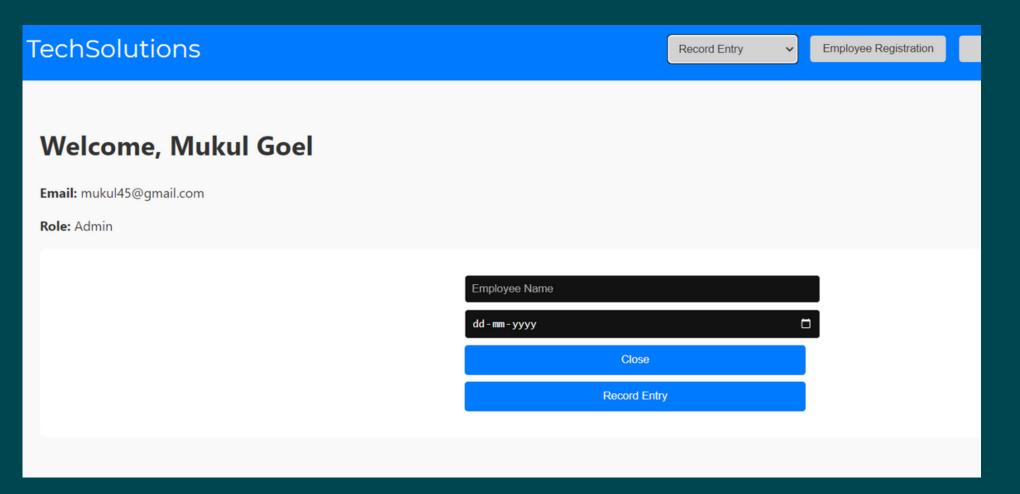
 All the details in the form are filled and entered in the users and employee table.

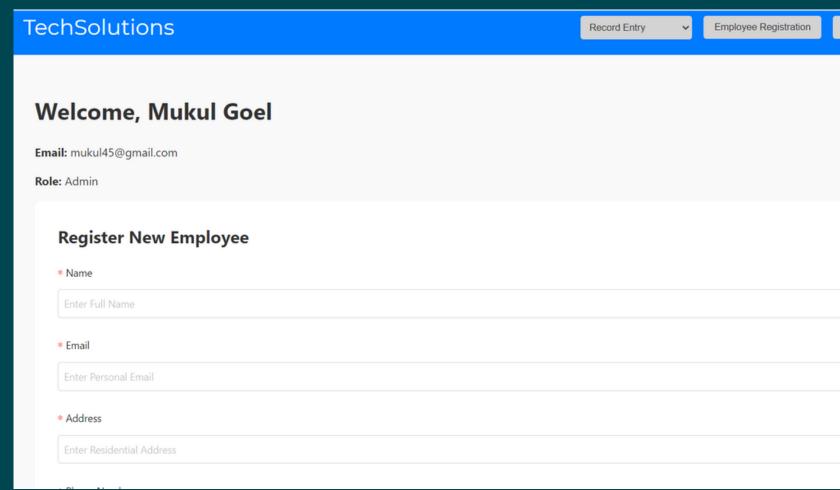
#### **Admin information**

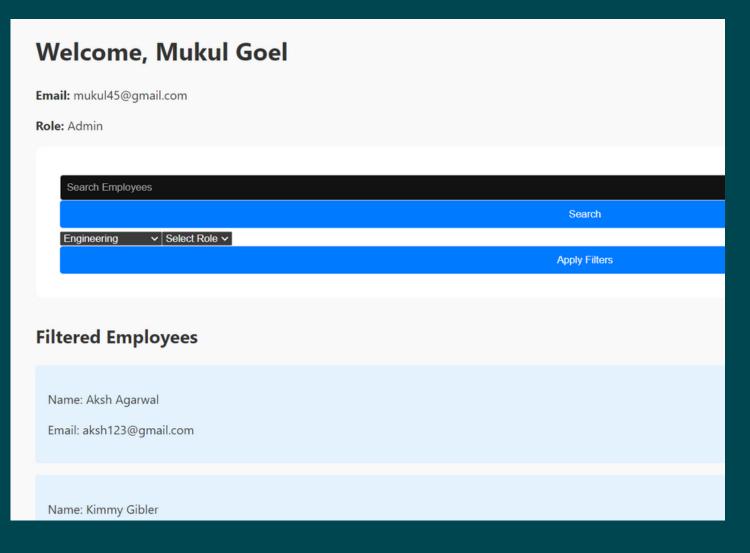
- Retrieve the admin data from the admin table.
- Using the name and email stored in the session.

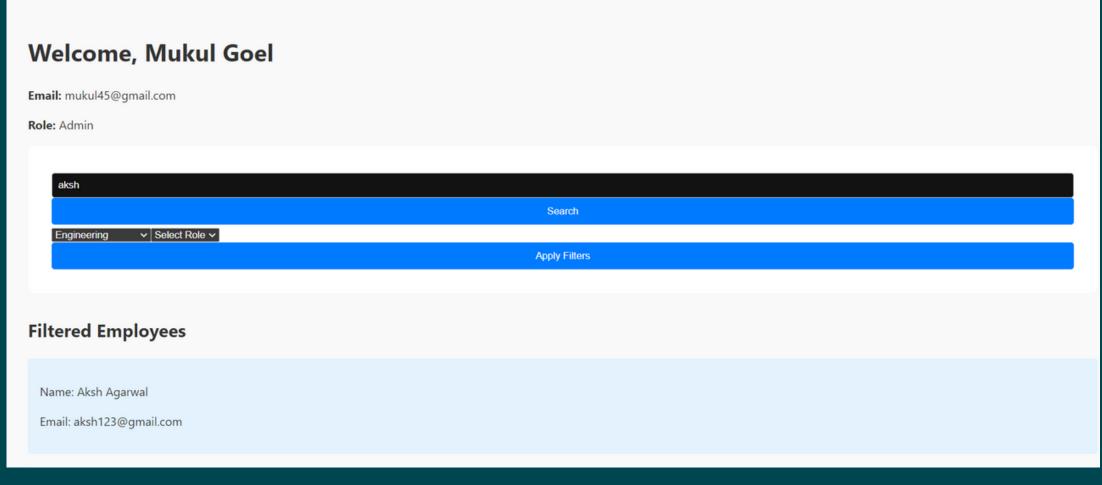
### **Attendance entry and exit**

- Record the entry and exit of the employee manually in the attendance table
- The entry exit times and the status are also stored in the table.









### Manager Dashboard

### **Personal Info**

### Leave Requests Management

### **Salary Payments**

### Show **Employees**

- Managers can see and access their personal information.
- Leave requests from the employees of their department are managed.
- They can approve the leave request or reject it with a proper reason.
- Cover the management of salary disbursements to employees.
- Salary for different number of months can be paid.
- Allows managers to see the employees info of their department.

Manager Dashboard

```
app.get('/get-employee-info', async (req, res) => {
   app.get('/search-employees', (req, res) => {
        app.get('/manager', (req, res) => {
   app.get('/managerProjects', (req, res) => {
app.get('/departmentEmployees', (req, res) => {
   app.get('/leave-applications', (req, res) => {
   app.post('/record-payment', (req, res) => {
```

#### **Employees**

- Get the list of employees who work in that department from the department table.
- On the basis of the department ID we get the list of all the employees.

### **Leave Requests**

- Manager can see the leave requests from the leave table on the basis of department ID.
- Approve and rejects on the requests can be updated in the table.

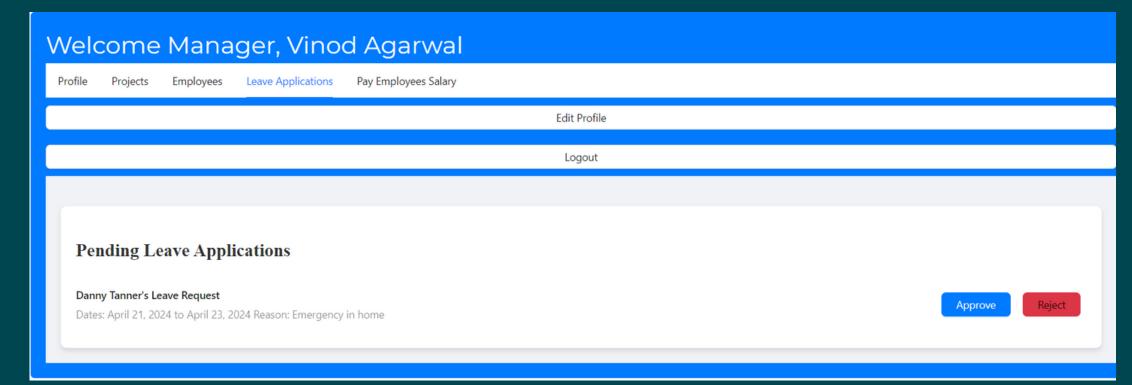
### **Employee payments**

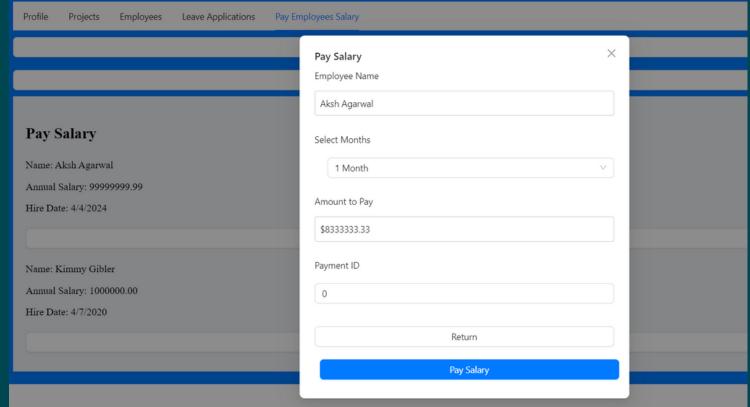
• In the employee\_payments table we update the amount and the months for which the employee is paid the salary.

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### **Employee Dashboard**

### **Personal Info**

## Leave Requests Apply and Status

Calendar

### **Projects**

 Employees can see their personal information

- They can apply for leaves and see their leave requests status as approved or rejected.
- Employees can see the calendar.
- Employees can also see the detailed holidays list
- Employees can see
   which are their ongoing
   and completed projects.

Employee dashboard

#### **Personal Info and calendar**

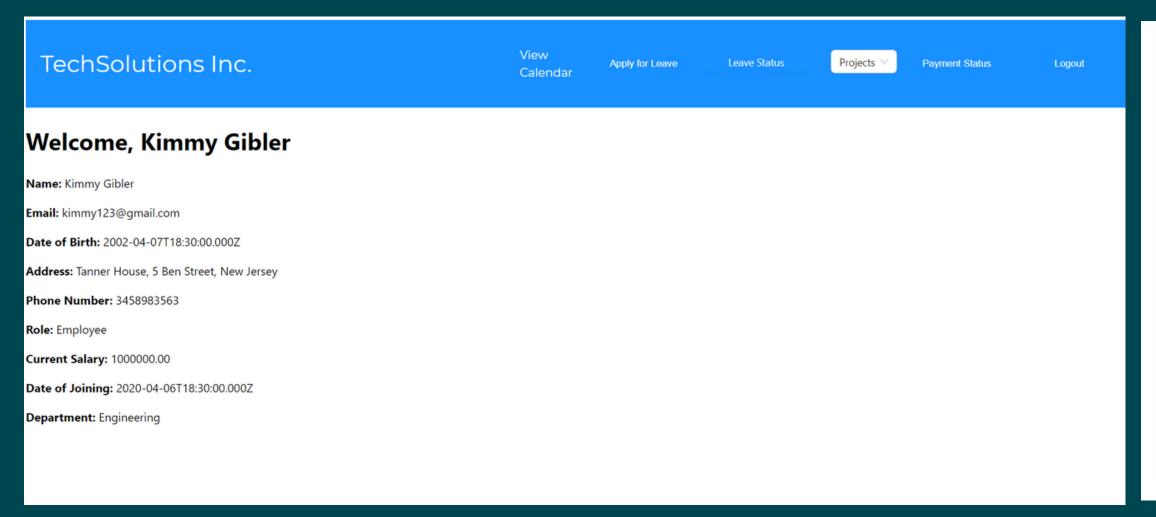
- Personal info retrieved from employees table based on the session user info.
- Calendar and holidays data from the calendar and holidays table retrieved.

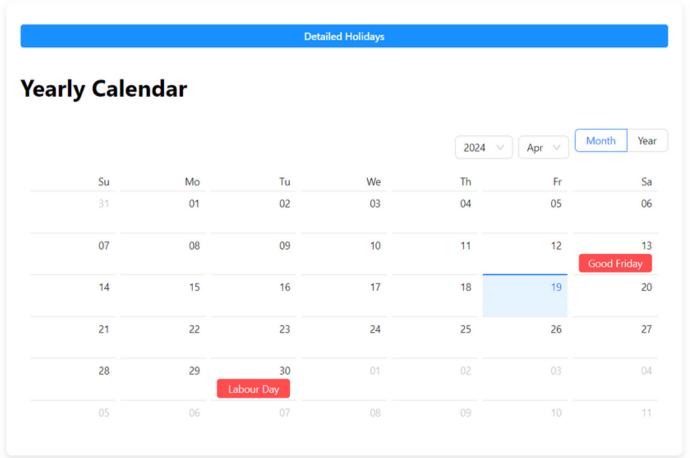
### **Apply Leaves and leave status**

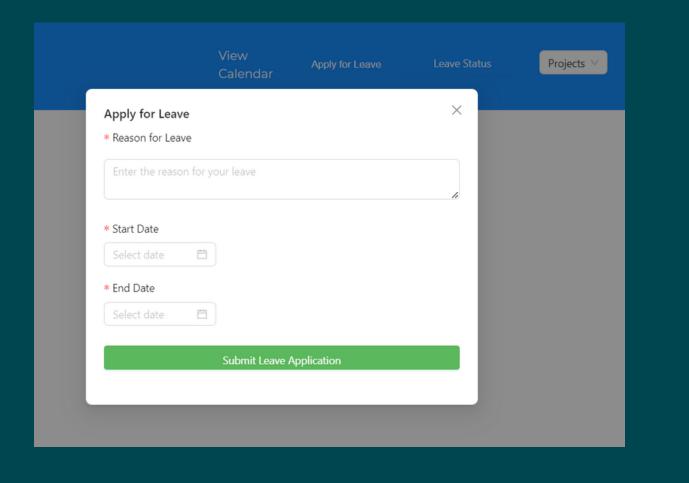
- Leave applied pending inserted in the leave table.
- Leave status is seen once manager approves or rejects the leaves.

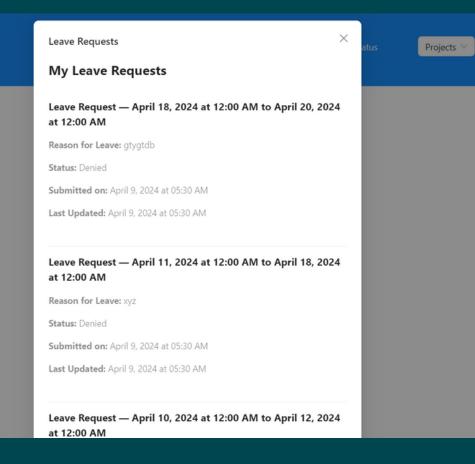
### **Projects**

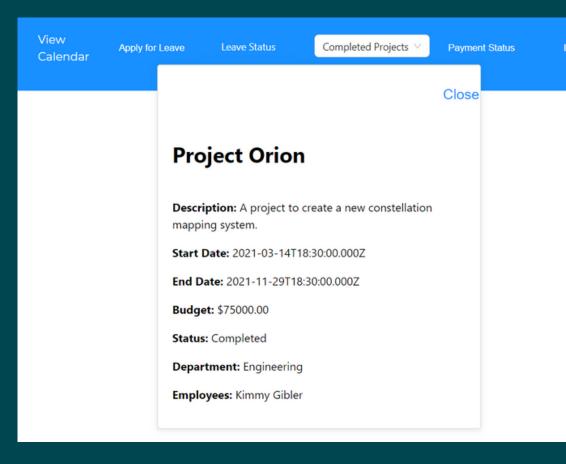
 Ongoing and Completed projects of the employee extracted from the projects table







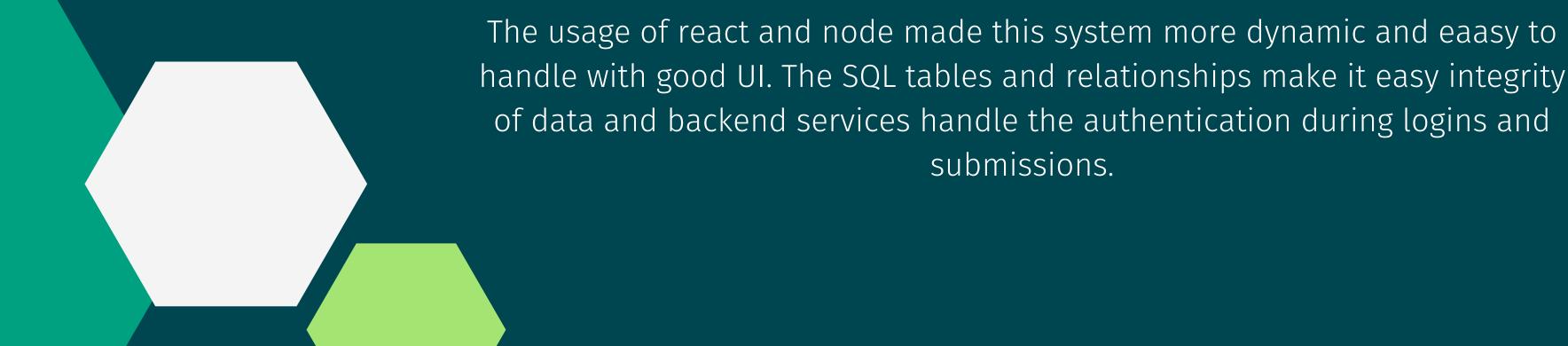




### Conclusion

### Support it with a brief explanation.

The implementation of the Employee Management System (EMS) marks a significant milestone in the way our organization manages and interacts with its human resources. By automating numerous routine tasks, the system has not only streamlined administrative processes but also significantly reduced errors associated with manual data entry and management.



# Demo link and Github link

Project github link(click on this)

Youtube Link for demo

