

## **Title: Employee Leave Management System**

### **Project Description:**

Develop a basic employee leave management system for a small company with around 50 employees. The system aims to automate the process of requesting and approving leave requests, providing transparency and efficiency in managing employee absences.

### **Project Requirements:**

#### **1. User Authentication:**

- Implement user authentication functionality to allow employees and managers to log in to the system securely.
- Create user roles for regular employees and managers with different permissions.

#### **2. Leave Request Submission:**

- Develop a form for employees to submit leave requests, including details such as leave type (e.g., vacation, sick leave), start date, end date, and reason for leave.
- Validate input fields to ensure completeness and accuracy of leave request information.

#### **3. Leave Approval Workflow:**

- Design a workflow for leave approval, where submitted leave requests are routed to the appropriate manager for review and approval.
- Allow managers to approve or reject leave requests and provide comments if necessary.

#### **4. Leave Balances:**

- Implement functionality to track and manage employee leave balances, including accrued vacation days, sick leave, and other types of leave.
- Update leave balances automatically when leave requests are approved or rejected.

#### **5. Leave Calendar:**

- Display a calendar view to visualize employee leave schedules and availability.
- Highlight approved leave requests and indicate when employees are on leave.

### **Learning Reference:**

#### **Learn and cover the following web development stack:**

- 1.HTML
- 2.CSS
- 3.JavaScript
- 4.MySQL

If you want, you can also explore and cover other areas and technologies that you think are relevant to the project.

**For reference, please review the following resources:**

1	Basics (Data Types, array, object, loops, function)	<a href="https://developer.mozilla.org/en-US/docs/Web/JavaScript">https://developer.mozilla.org/en-US/docs/Web/JavaScript</a>	1 hr		
2	Array methods, Object methods	<a href="https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array">https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array</a>	1 hr		
3	DOM, Event, RegExp	<a href="https://developer.mozilla.org/en-US/docs/Web/API/Document">https://developer.mozilla.org/en-US/docs/Web/API/Document</a>	1.3 0 hr		<a href="https://www.javascripttutorial.net/">https://www.javascripttutorial.net/</a>
4	Callbacks, Promise, Async await	1. <a href="https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Promises">https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Promises</a> 2. <a href="https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Async_await">https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Async_await</a>	1 hr	<a href="https://www.youtube.com/playlist?list=PL4cUxeGkcC9jx2TTZk3IGWKSbtugYdrlu">https://www.youtube.com/playlist?list=PL4cUxeGkcC9jx2TTZk3IGWKSbtugYdrlu</a>	<a href="https://developer.mozilla.org/en-US/docs/Web/JavaScript">https://developer.mozilla.org/en-US/docs/Web/JavaScript</a>  (For complete js documentation)
5	ES6	1. <a href="https://www.javascripttutorial.net/es6/">https://www.javascripttutorial.net/es6/</a> 2. <a href="https://youtu.be/NCwa_xi0Uuc">https://youtu.be/NCwa_xi0Uuc</a>	2 hr		
6	Handle API using Fetch (CRUD)	<a href="https://jsonplaceholder.typicode.com/">https://jsonplaceholder.typicode.com/</a>			

Thank you for your efforts, and we look forward to reviewing your submission.

