TIMESHEET

1. INTRODUCTION

The Timesheet Management System automates employee work hour tracking, attendance, and overtime, eliminating manual errors and inefficiencies from traditional methods. It offers a centralized platform with check-in/check-out logging, project hour tracking, and instant report generation. With automated calculations, role-based dashboards, and real-time monitoring, it improves accuracy, efficiency, and transparency in workforce management.

2. PROJECT WORKFLOW

2.1 LOGIN & AUTHENTICATION - Provides secure role-based access for both admins and employees, ensuring data privacy and controlled system usage.

2.2 ADMIN DASHBOARD - Admins can manage the organization by creating employee accounts, adding, editing, or deleting projects, and viewing employees' working hours project-wise. They can also download detailed timesheet reports for a selected project for analysis.

2.3 EMPLOYEE DASHBOARD - Employees can log their daily work activities, view their past entries, and track progress, helping to improve work efficiency and productivity.

3. IDENTIFIED CHALLENGES

Manual Entry Errors - Employees or managers manually logging work hours in spreadsheets can lead to inaccurate data and reporting mistakes.

Limited Real-Time Visibility - Managers cannot monitor work hours or project allocation in real time, leading to delays in decision-making.

Time-Consuming Reporting - Generating timesheet reports for payroll or project analysis requires manual effort, increasing processing time and the risk of errors.

Inefficient Workflow Tracking - Employees lack a centralized system to track daily work activities and progress, reducing productivity and accountability.

4. TECHNOLOGY STACK

Frontend:

- React.js – For building a responsive and interactive user interface.
- Material-UI (MUI) – For modern, styled components and layouts.
- HTML5 & CSS3 – For structure and styling.
- JavaScript (ES6+) – For dynamic functionality and client-side logic.

Backend:

- Node.js – To handle server-side logic and API endpoints.

Database:

MySQL – To store employee data, timesheets, projects, and reports.

State Management:

- React Hooks / Context API – To manage application state efficiently.

Notifications & Alerts:

- React- Toastify – For user-friendly alerts and messages.

Data Handling & Export:

- CSV / Excel Export – To download timesheet and project reports.

Version Control:

- Git & GitHub – For source code management and collaboration.

5. FILES AND FOLDER STRUCTURE

FRONTEND

Authentication - src/layouts/dashboard/authentication/ contains SignIn.js, ResetPassword.js, for user login, password reset.

Admin Dashboard - AddMember.js, MembersTable.js, and ProjectStatus.js in src/layouts/dashboard/admin/pages/ handle adding new members, displaying member lists, and tracking project statuses, respectively. These components use forms, tables, and status indicators to manage and monitor team data in the admin dashboard.

Employee Dashboard - src/layouts/dashboard/employee/ contains components for the employee dashboard, managing features like, timesheets, tasks, and personal work data.

BACKEND

DB Connection – hrms-backend/db.js contains db connection for MySQL

Controllers - projectController.js, memberController.js, and timesheetController.js in hrms-backend/controller/ manage backend logic for projects, members, and timesheets. They handle create, read, update, and delete (CRUD) operations and connect routes with the database layer**.**

CREDENTIALS

Email: admin@gmail.com
Password: Admin@123!
Github Link: https://github.com/aishwaryatansam/employee_backend.git
Database: "D:\Aishwarya_2025\DB for Timesheet"