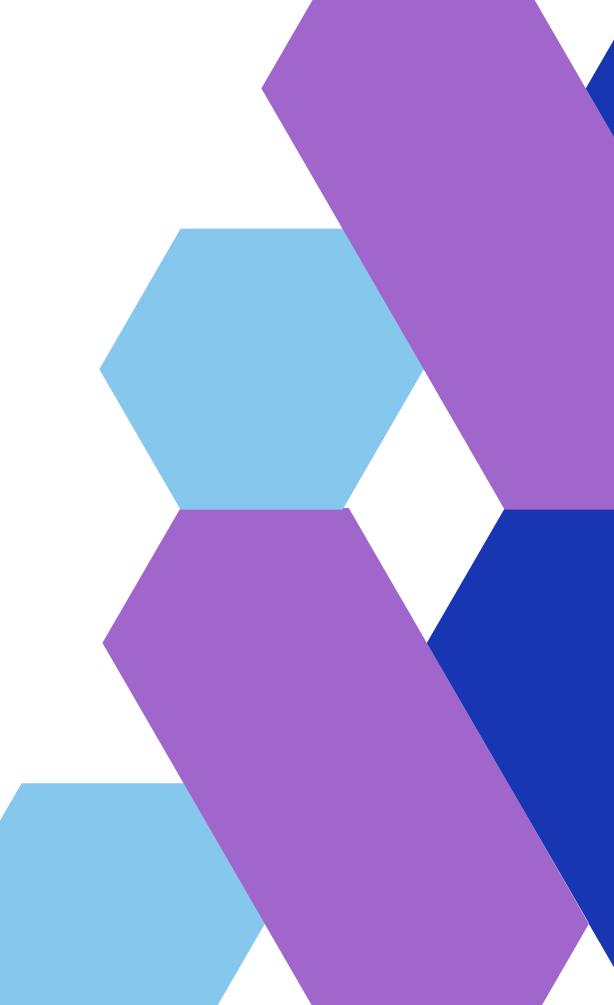
# ATTENDANCE MANAGEMENT SYSTEM

**Anup Ojha** 

Full Stack Intern

A web-based Solution for the employee attendance tracking





# System Architecture

**Frontend (Angular)** → Handles UI and API integration.

**Backend (Spring Boot, Java)** → Manages business logic and API.

**Database (MySQL)** → Stores user and attendance records.

Integration: RESTful APIs for smooth data exchange.

Libraries: Chart.js for graphical reports,

FullCalendar for attendance scheduling and event management.













## Key Feature

User Authentication: Secure Login and registration

Attendance Management: Employees can mark daily attendance.

**Leave Management:** Employees can request leaves, and managers can approve/reject.

**Data Visualization:** Attendance trends using Chart.js. Monthly calendar view using FullCalendar.

**Dynamic Nature:** We have tried Everything to make our site and features fully dynamic and user based

**Extras:** Filtering, Sorting, Search with Autocomplete and fully Angular material based - Data Validation





Login/Register Page: User authentication with secure credentials.

Attendance Marking: Employees can mark their daily attendance.

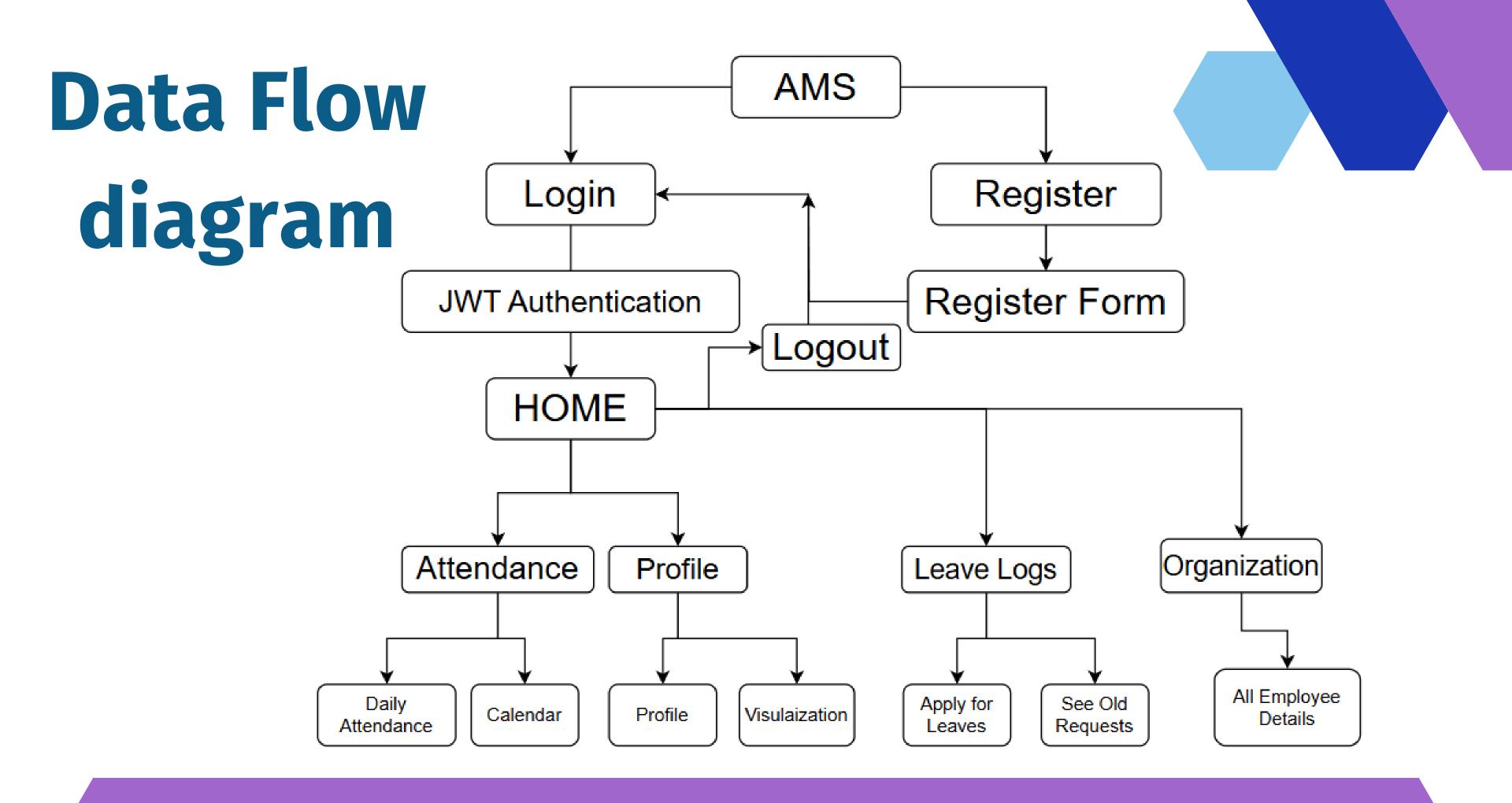
Calendar: Overview of attendance, recent attendance timing logs.

Leave Request Panel: Submit and track leave applications.

**Profile Panel:** Manage and See Employee data and Its Various Visualization over data and statistics.

Organization: See all Employees of Organization.

Logout: For ending a session and cleaning out the local Storage



# Database Architecture and MySQL Tables

#### **Employee Table**

Employee Details Table

Leaves Table

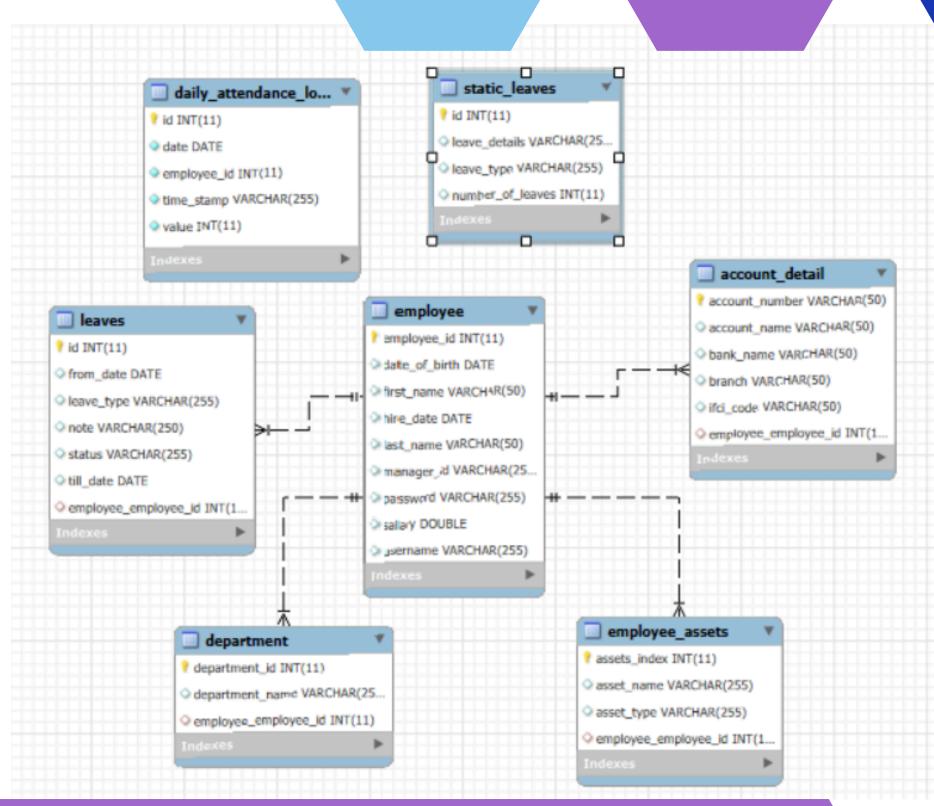
Account Details Table

Department Table

Employee Assets Table

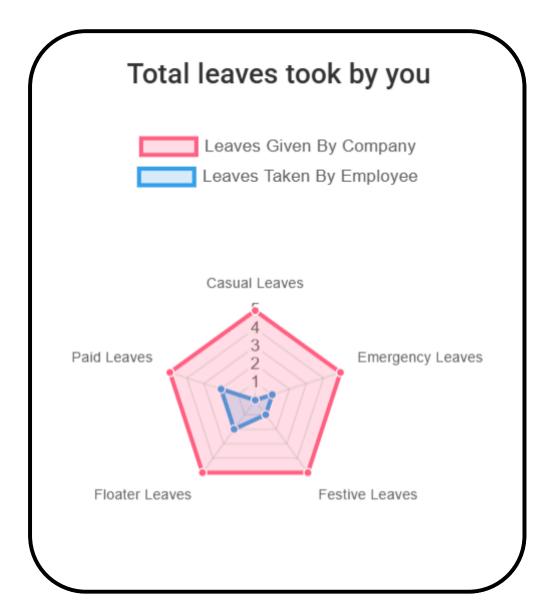
**Daily Leaves Attendance Table** 

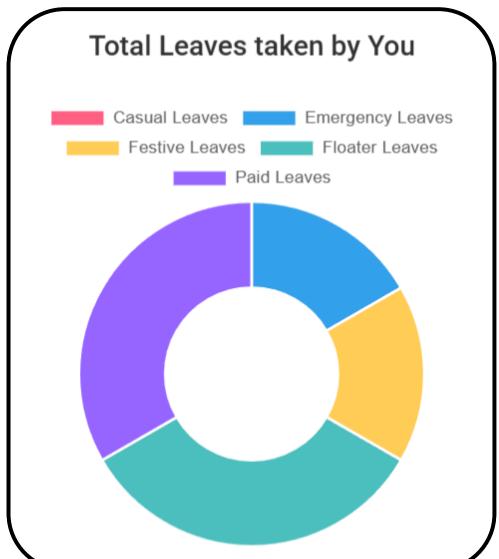
**Static Leaves Table** 

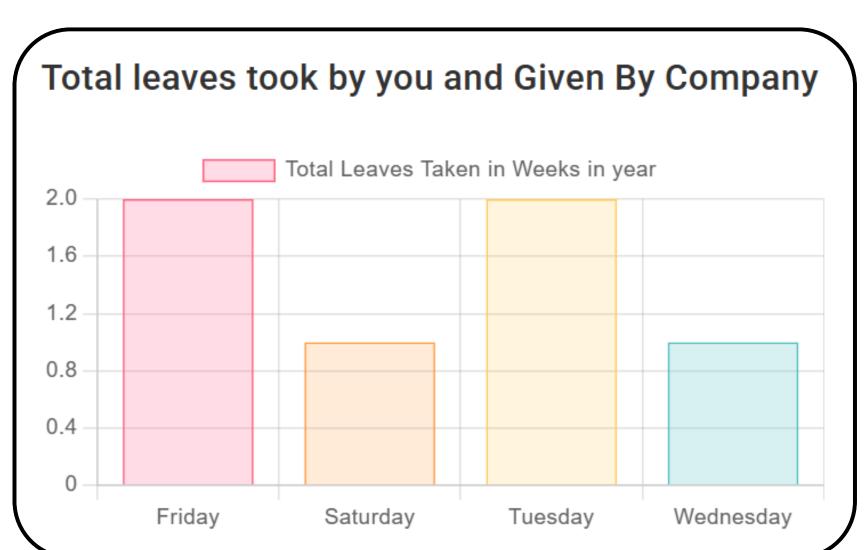


### Data Visulaization

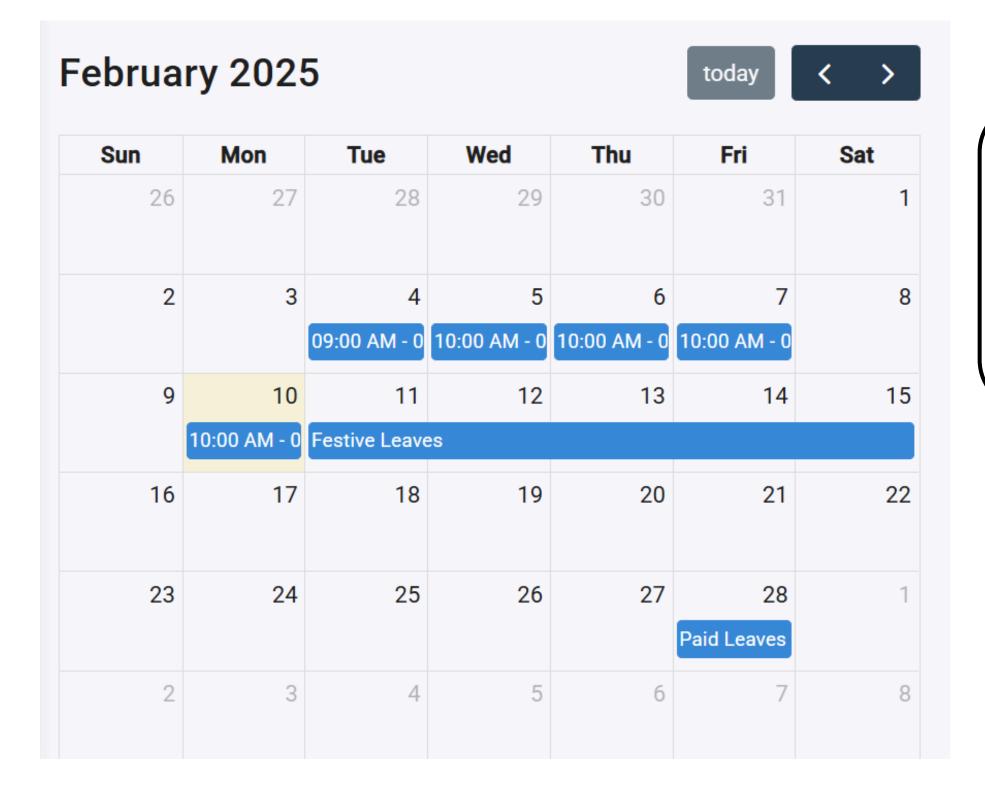








#### Full Calendar





Daily Attendance Timing
Leave Logs Events





#### Conclusion and Future Enhancements

#### **Conclusion:**

- Simplifies attendance tracking and enhances efficiency.
- Provides real-time reports and improves workforce management.

#### **Future Enhancements:**

- Admin Panel.
- More Enhanced UI
- Admin assigned task Display in the Calendar.
- More advanced analytics and progress tracking.

