Smart Employee Management System (SEMS)

EECS 4314 PROJECT

What is a Smart Employee Management System?

A database containing employee information.

Monitor Employee attendance.

Track Work Hours

Payroll Processing

Add / Delete / Edit Timesheets

Create and Track Project Progress

Project Goals

Employees

Build a virtual platform

- Users will be able to log into their accounts
- Allow users to view / edit timesheets.
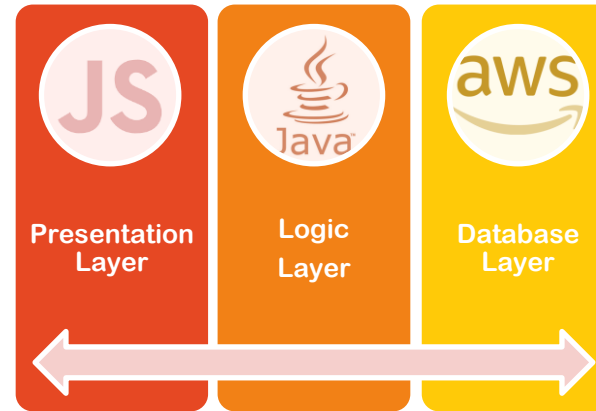- Allow users to edit personal information.

Employer

Create a cloud-base platform

- Gain access to the system.
- Monitor, approve / edit attendance, worklogs and leaves.
- Employer can view / edit employee records.
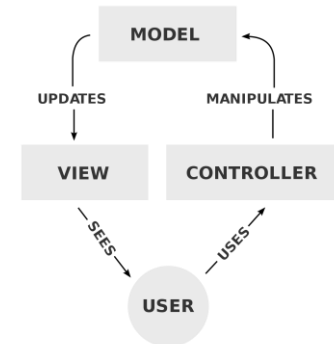- Add / remove employee from the system

Architectures

3 Tier Architecture

Model View Controller Architecture

Service Oriented Architecture

User Story

Employee of Company XYZ

Login
- Authenticate with unique Employee ID
- Sign-Up / Login Re-captcha verification.

View
- Employee Working Hours
- Daily / Weekly Attendance
- Invoices

Edit
- Employee Profile [Username, email, phone]

User Story

Employer of Company XYZ

Login
- Authenticate with unique Employer ID
- Sign-Up / Login Re-captcha verification.

View
- Track Project Status / Progress
- Authorise Leaves / Absence
- Employee Payroll

Edit
- Employee Profile [Username, email, phone]
- Add / Remove Employee from the System.

Socio-Economic Benefits

- ✓ Fewer manual errors
- ✓ Better accuracy and efficiency
- ✓ Fewer costs
- ✓ Higher employee engagement, motivation, and productivity
- ✓ Fewer compliance risks
- ✓ Increased profitability
- ✓ Streamlined daily operations
- ✓ Simple and Compact
- ✓ Efficient job scheduling
- ✓ Invoice automation

Existing Software

Time tracking
Work force productivity measuring

EmpMonitor

Hubstaff

Project Timeline Tracking
Attendance Management
Automated Payroll

officevibe

Team Management
(Main Focus)

bambooHR™

Advantage over others?