



# Grand Valley State University

## CIS641 - System Analysis and Design

### **Project:**

# **Employee Management System**

**Presented by:** Team Vikings

# Group Members and Roles



- Vamsi Paturi : Front End Developer
- Venkata Madhav Thota : Database Engineer/ Quality Analyst
- Dilip Kumar Vavilapalli : GUI Designer
- Vaishnavi Prakash Rasane : Backend Developer / Document Designer

**Professor: Erik Fredericks**

## What is Employee Management System?



For any organization, managing all the employees data and keeping a track of it manually is a time consuming process. EMS will help organization to locate specific employees' complete records within a business and assist newly hired employees with the onboarding process,

# Features:



Admin and Employee  
login

Upload Employee  
onboarding  
documents

Employees List and  
their record

Employee Work  
History Record

Attendance  
Management

Salary Management

# Tech Stack:



## Angular JS

- It is used for front-end web application development framework using type script for development

## Amazon S3

- It is used to store the documents on cloud.

## Node Js

- Used node.js as a backend server with mongoDB to store data in the database

# What has Changed since midterm?

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- **UI**
  - We completed user interface which we planned initially
- **Features**
  - Developed frontend for work history record, employees list
  - S3 bucket integration to store the documents on cloud.
- **Backend**
  - Integration of front-end and back-end for few functionalities.

# What is EMS Change Management Plan?



1. **Why EMS System?** : Information management system for organization. Easy to use for employees.
2. **Integration within organization ecosystem:** Identifying the existing software that the company is currently using and developing integration plan.
3. **Training Strategy:** Provide a comprehensive overview of the system to user and demonstrate how to use the system, offer support.
4. **How EMS will you ensure that it any discovered issues are resolved?:** By monitoring system performance, establishing a process for reporting and tracking issues and creating timeline to resolve the issue



# Installation Guide:

1. [Clone the git-repo, click here](#)

## 2. Instructions to run backend:

- i) Change directory using command **\$ cd src/EMS Backend**
- ii) Start backend connection using the command **\$ nodemon index.js**

## 3. Instructions to run the Frontend:

- i) **Once the backend is connected open new CMD**
- ii) Change directory using command **\$ cd src/EMS Frontend**
- iii) Start frontend using the command **\$ ng serve -o**


4. Now both the front and backend are connected and application is ready to Use.



# Developed User Interface: Login Screen

A screenshot of a web browser displaying the login screen of an Employee Management System. The browser's address bar shows the URL "localhost:4200/auth/login". The login form is centered on a white background and includes a title, two input fields, and two buttons.

Employee Management System



[Sign In](#)

[Register](#)

# Developed User Interface: Register page



← → ↻ ⓘ localhost:4200/auth/register 🔑 📄 ☆ 📱 ⚙️ 🖱️ 🌐 ⋮

### Register Employee

Name	Address	Phone Number
<input type="text" value="admin@gmail.com"/>	<input type="text" value="*****"/>	<input type="text" value=""/>
<input type="text" value="dd/mm/yyyy"/> 📅		Confirm Password

# Update user information:



[← Back](#) [Add New User](#)

EMS

Work List

Update Info

Documents

Work History

Sign Out

Name

Vamsi

Address

testing address

Mobile Number

+12354654654

Email Address

vamsi@gmail.com

DOB

12/01/2011

Cancel

Confirm

# Log user work:



### Add Work

EMS

Work List

Update Info

Documents

Work History

Sign Out

Start Shift

Start Break

End Break

End Shift

# Employee Work history records:



## Work History

### EMS

Work List

Update Info

Documents

Work History

Sign Out

Id	Date	Check-in time	Check-out time	Working Hrs	Break Hrs	Total
1	08/12/2022	12:17 AM	12:17 AM	0.08	0.00	0.0
2	12/12/2022	6:16 PM	6:16 PM	0.00	0.00	0.0
3	13/12/2022	8:56 PM	8:56 PM	0.00	0.20	0.2

# HR Interface: Employee List



Employees					
<div><div></div><div>Search</div></div>					
<div>EMS</div> <div>Employee</div> <div>Sign Out</div>	Name	Address	Mobile Number	Email Address	DOB
	Garima	1090, campus NE, Grand Rapids	8098719054	garima@gmail.com	15/11/1999
	Monica Geller	2278, times square, NY	7818930942	geller@gmail.com	14/08/1994
	Shivani	301, Orchid plaza, Pune	7758822621	shivu31@gmail.com	30/07/1991
	Vaishnavi	901, Krishnaprabha complex	7757954721	vaishnawi156@gmail.com	14/10/1996
<div>1</div>					



# Demo

Let's check out the demo of our work  
Employee Management System!



Questions?

Thank you!