

# **EMPLOYEE MANAGEMENT SYSTEM**

## **PG DIPLOMA IN ADVANCED COMPUTING**

### Team Members:

Anchal Saxena

PRN No: 200250120006

Megha M Pillai

PRN No: 200250120051

## **WORKING OF PROJEsCT**

1.We have used angular for presentation(client side), spring boot and Nodejs in service layer, Mysql in dao layer.

2.There are two Modules:

- a) Admin
- b) Employee

3. Admin will create password while adding new user so that employee can login only through those credentials.

4.Admin can view the leaves applied by employee.

5.Admin can perform all the crud operations .

6.Employee will login and can upload files like his documents in pdf format.

7.Employee can apply leaves by giving specific reasons like sick leave, casual leaves, paid leaves which will be reflected in admin module.

8.The version of angular is 10.22.0, spring boot version is 2.4.2, Nodejs version is 10.22.0,Mysql version is 8.

# **FLOW OF PROJECT**

## **Scenario (While logging in )**

### **Presentation Layer (Angular)**

1. Here the Admin will login by clicking on login button.
2. At the same time the session (route guard) component will start working.
3. The data will get stored in Local Storage and is used throughout the session .
4. When the admin clicks on logout the information stored in local storage will get cleared

### **Service Layer (Spring Boot)**

1. The credentials entered by the admin are checked with database through JPA repository , if it is correct or not.
2. If correct it returns status as 200(successful) and if wrong it returns status as 403(Forbidden).

### **Database (Mysql)**

1. This is the place where all the data regarding the admin and employee are stored.
2. The Spring Connects to Mysql through JPA Repository. The login details are stored in the table. Through these information stored in table the login credentials are checked.

# **CHALLENGES WHILE WORKING**

## **1.Approach to be taken**

We were not clear from where to start. So we maintained scrum board for scheduling things and how to go about.

## **2.How to maintain database**

We were not clear about the fields that should be taken in a table and how those fields should be linked. So, we first discussed on paper and thereafter, when it was finalised we started making Mysql.

## **3.Implementing Session**

Due to time constraints rather than maintaining session in server side we implemented at client side using routeguard.

## **4.Naming Convention(Angular)**

The names used in angular should be same as in database tables else response is not reflected at the client side.

## **5.Routing In Angular**

As Angular is Single Page Application we faced problem while routing. While routing when we route from one page to another the we were not able to hide the component using div[hidden] and hence we used navigation

# **LEARNING WHILE DOING PROJECT**

## **1.USING TWO SERVICE LAYER**

We have used spring boot for applying the leaves and once the employee applies leaves it's changes is reflected in admin module by using Nodejs.

## **2.USING SCRUM BOARD**

We learnt how scrum board can be used for scheduling project related activities. We learnt that we can make account on Atlassian and use the software without downloading it.

## **3.SESSION**

We learnt how to implement session using Routeguard at client side(Angular)

