




Epics Employee management system



CS157A



Team

Tanusree Debnath

Kevin Chang

Ngan Luu

Goal

The main purpose of this project is to develop a web application platform that can be used by companies to manage the data of their employees. As the number of employees grows in a company, a company needs to have a good way to store the information of the employees which is reliable and fast. This web application platform called “Epics” will provide a platform for storing the data of employees which would benefit the company in the long run.

Problem that Epics solves

As many startups are emerging, people need to use an employee management system to keep all the records of the employee. Without a proper management application it is very difficult to keep all the data of the employee in an organized way. It also gets very difficult when the number of employees grows. Some people use google sheet but it is not very flexible as we can not maintain a large number of employee details there.

Tables in the database

EMPLOYEE
DEPARTMENT
HAS_SCHEDULE
RECEIVES_SALARY
HAS3_BENEFITS
APPLY_VACATION_LEAVE
ROLE
HAS2
WORKS_ON
CONTROL_PROJECT
WORK_FOR

Architecture

Presentation Tier:

In Epics, Gui interface for interacting with the web application.

Logic Tier:

We have used Apache Tomcat as a backend server for handling user requests and communicating with the database.

Data Tier:

My project will use ORACLE as our RDBMS(Relational Database Manage System) to manage and provide access to the data.

Functionality

We have functionalities like:

ADD

DELETE

VIEW

UPDATE

Major design decision

We have taken major decisions like using tomcat as our server and Java as our primary programming language for this project as we all are very comfortable with tomcat and Java.

We have used tables to create, maintain employee data in the database.

Problem faced during implementation

It was very hard to connect to the oracle database. We have used mysql database before and we never faced such trouble. Also due to covid we could not meet in person which slowed us down.

What comes next:

We would not make any improvements to this project after this class end but we would like to make it a public repository so that if anyone is interested in developing this project further, he/she may do that.