Project 1: Expense Reimbursement Application

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Project Overview

- Employee Reimbursement System's main objective is to manage the process of reimbursing employees for expenses incurred while on company time.

- Employees can login and view previous reports or submit new reports.

- Finance managers can login and view all reports or Approve/Reject Pending reports for any employee.
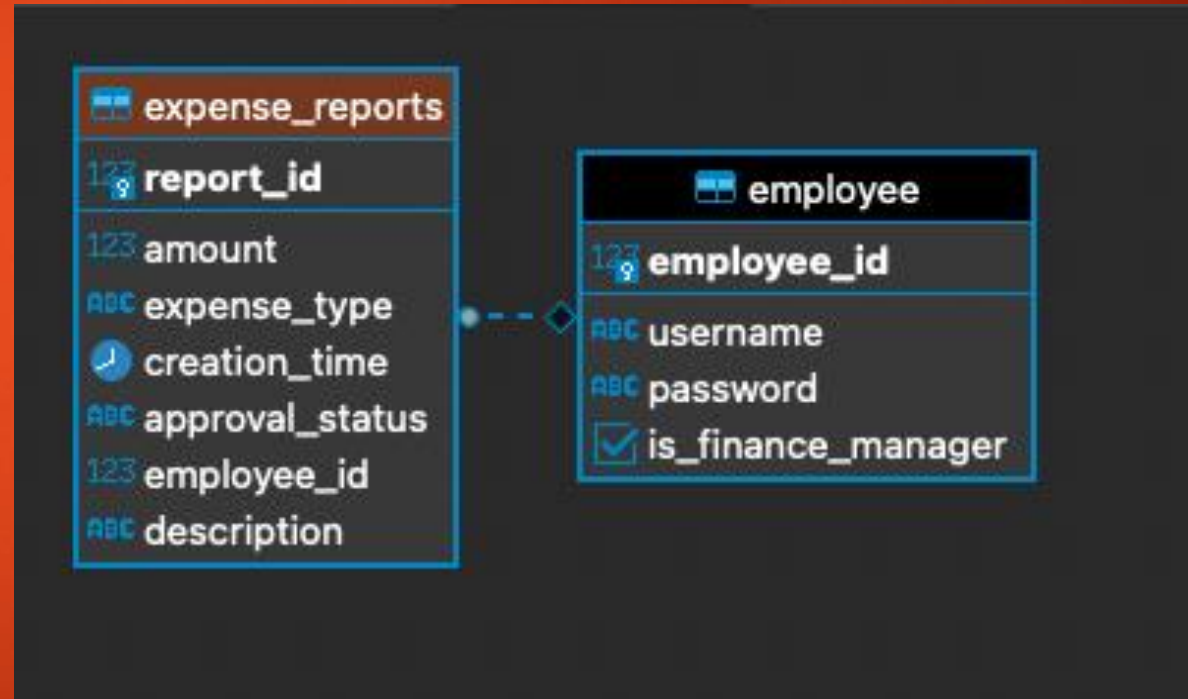
Scrum

- At the beginning of each week, we both decided on the features that need to be done by the end of the week.
- If any issues arose, we talked to each other first to see if the other had a solution.
  - If not, then we talked to the rest of the team to find their solutions to any similar problem.

DevOps

- Agile methodology
- Continous Integreation
  - Git hub – central repository

- Continous Deployment
  - Jenkins – build & deploy project on EC2 instance

- Maven Dependencies
  - Log4j, J-unit, Mockito, Javalin, Postgres, & Jackson

Back End

- Database:
  - Postrges SQL using RDS
  - Tables in 3rd normal form
  - One-Many Relationship

- Java DAO classes:
  - Report DAO
  - Employee DAO
  - Connected Via JDBC

Mid-Tier

- Java Service Layer handling core logic.
  - Connects with DAO layers and
  - Connects with Front Controllers.

- Models – Employee Class and Report Class
- Logging - Log4j
- Testing – Junit w/ Mockito

Front End

- HTML is how we designed our webpages
- JavaScript is how we developed our tables and button actions
- Javalin is how we communicated with our java back and forth to the JavaScript/HTML
- CSS
  - Bootstrap was used to further design our webpage
- 1 Request Handler, 2 Controller layers
  - Authenticate Controller
  - User Controller

Demo

- http://ec2-52-15-202-41.us-east-2.compute.amazonaws.com:8000/

Questions?