

# Expense Reimbursement System

Project 1 Journal

Revision 1.0

The bottom of the slide features a decorative graphic consisting of three overlapping wavy lines. The topmost line is a vibrant red, the middle line is a light blue, and the bottommost line is a dark blue. These lines create a sense of movement and depth at the base of the presentation.

# Tech Stack

Java 8

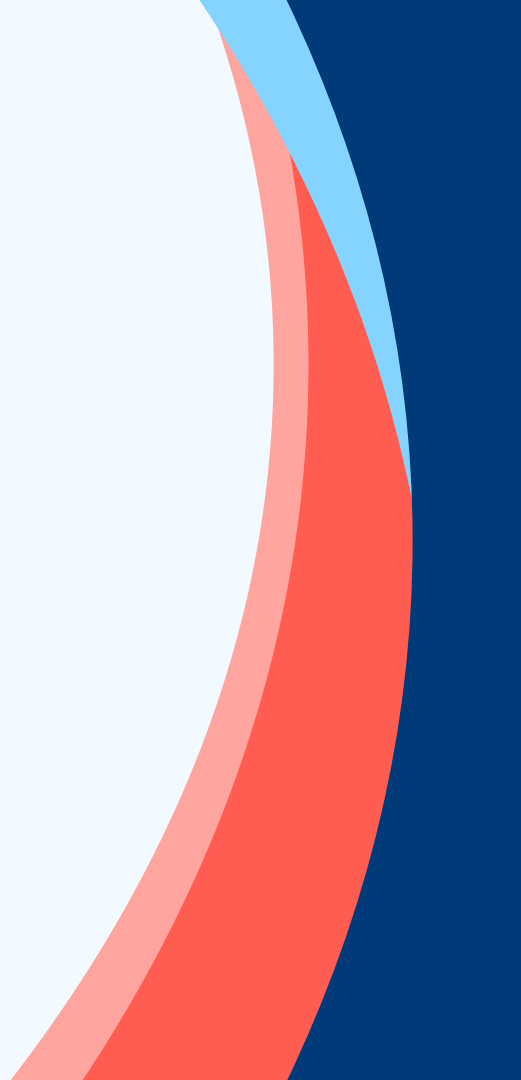
Apache Maven

PostgreSQL

Javalin

Git SCM

Postman



# User Stories

As an Employee I want an expense reimbursement system so that I can submit reimbursement requests and view pending request tickets.

As a Financial Manager I want an expense reimbursement system so that I may approve or deny employee reimbursement requests.

# Requirements

1. Ability to log into the application
2. Ability to register a new account
3. Employees can submit reimbursement ticket
4. Managers can process tickets submitted by employees
5. Employees can view previous submissions

# Ability to log into the application

## 1. Username and password input

### <User Object>

- username
- password
- role
- list of ticket submissions
- name
- address

# Ability to register a new account

1. Usernames must be unique so check database before allowing new username `[map.putIfAbsent]`
2. Default role for newly registered accounts will be set to 'Employee'

# Employees can submit reimbursement ticket

1. Ticket must include amount
2. Ticket must include a description

## <Ticket Object>

- amount
- description
- status (Pending, Approved, or Denied)
- type (Travel, Lodging, Food, Other)
- image of receipt

# Managers can process tickets submitted by employees

1. Tickets can be Approved or Denied
2. Tickets cannot change status after processing



# Employees can view previous submissions

1. Can filter by Pending, Approved, or Denied status
2. Can view previous requests filtered by type

# Backlog

- Managers can change a user's role
- Employees can upload and store images of reimbursement receipts
- User Profile/Account Page for users to edit their account, profile picture, and account information

# Challenges / Issues

- No experience with the tech stack
- SQL database script creation
- JDBC <-> DBeaver connection
- Table and column names (upper)
- Postman <-> Java API connection