# spring\_projects\_1

several projects worked on with Revature

\*\*Expense reimbursement system.\*\* using - Java / Spring

This application is an expense reimbursement system back-end, built via the Spring framework in Java. It is a RESTful API that allows admins, managers, and employees to login, view and manage business related expenses that need to be reimbursed.

\*\*User Stories\*\*

User stories describe the functionality of the application and are categorized by the roles defined below:

\*\*Users\*\*

• All users can login using their username and password

\*\*Admins\*\*

Admins can:

• View all users

• Edit user information

• Delete users

• Add new users

\*\*Managers\*\*

Managers can:

• View all reimbursement requests

• Approve or deny or re-assign a request

\*\*Employees\*\*

Employees can:

• Submit a new reimbursement request

• Upload an image of a receipt for the expense

• View their own reimbursement requests

\*\*Endpoints\*\*

• /login - for authentication >> not yet implemented

• /users - for admins to GET and POST to all users

• /users/{id} - for admins to GET, PUT, or DELETE a single user

• /reimbursements - for employees to GET and POST new expense reimbursement requests

• /reimbursements/{id} - for employees to GET, PUT, or DELETE an expense

• /reimbursements/{id}/receipt - for employees to POST an image of their receipt

• /reimbursements/{id}/approve - for managers to approve an expense via PUT requests

• /reimbursements/{id}/reject - for managers to reject an expense via DELETE requests

\*\*Technologies\*\*

• Spring Boot

o Spring MVC

o Spring AOP

o Spring Data JPA

o Spring Security

o Spring HATEOAS

• AWS S3 - for storing receipt image uploads

• JSON web tokens

**\*\*You can these apps with docker run with Docker:\*\***

# clone the repo & cd into it..

docker build .

docker run -p 80:8080 -dit <imagename>

Or grab the public image:

docker run -p 80:8080 -dit acrenwelge/ers-java:latestGraphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated