Expense Reimbursement System (ERS)

Project 1 will an individual project be based off of an employee expense reimbursement system (or similar*). It will be a full stack application utilizing HTML, CSS, and JavaScript on the frontend and a Java application on the backend. This Java application will utilize Servlets to process user requests from the front end. The following user stories are required of the application:

-An Employee can login
-An Employee can view the Employee Homepage
-An Employee can logout
-An Employee can submit a reimbursement request
-An Employee can view their pending reimbursement requests
-An Employee can view their resolved reimbursement requests
-An Employee can view their information (profile)
-An Employee can update their information

-A Manager can login
-A Manager can view the Manager Homepage
-A Manager can logout
-A Manager can approve/deny pending reimbursement requests
-A Manager can view all pending requests from all employees
-A Manager can view all resolved requests from all employees and see which manager resolved it
-A Manager can view all Employees
-A Manager can view reimbursement requests from a single Employee

Additional Requirements:
- for testing application code
- Ensuring code quality with a static code analysis
- Logging using log4j or a similar logging framework
- JUnit

Optional User Stories:

-An Employee can upload an image of his/her receipt as part of the reimbursement request

-A Manager can view images of the receipts from reimbursement requests

-An Employee receives an email when one of their reimbursement requests is resolved

-A Manager can register an Employee, which sends the Employee an email with their username and temp password

-An Employee can reset their password

-Password encryption

-Including visual aids, such as charts showing spending categories or spending over time

Technologies:

-Java 1.8

-Servlets

-JDBC

-SQL

-HTML

-CSS

-Javascript

-Bootstrap

-AJAX

-JUnit

-log4j

Environment:

-Tomcat Server

-PostgreSQL Database

-Eclipse/Spring Tools Suite

-DBeaver

*It is possible to do a variation of the ERS system if you'd like. If you have a similar idea that you would like to implement, it can be discussed with your trainer, as long as there are equivalent user stories that can be defined