

Program Report

Java Final Sprint

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User Documentation

This e-commerce application allows users to buy and sell products online. It is created using a Maven based system using PostgreSQL and is used to simulate a real word marketplace so individuals can buy or sell online. Essentially how it works is, someone will be able to register online with a username, password, email, and role. Based on the role they choose; it will display a specific menu and employs a secure authentication mechanism using BCrypt. The targeted roles we were provided were buyer, seller, admin. Buyers can browse and search for products and also view their details. Sellers can add, update, or delete any products they already had on their site. Lastly, admins are able to manage user accounts, monitor any activity and also view a list of products that are on the system.

Development Documentation

Javadocs are essentially a detailed description of each class and method. In our code, we provided these comments describing what they mean or their purpose. Source code directory helps us locate our files to fully understand the overall structure. We divided our files perfectly to provide a well-structured project. All of the com.ecommerce files in a one folder, the UserDAO and ProductDAO in a folder, connections and tests in a folder, and the service files in a folder. Having a proper source code directory allowed us to easily work together as a team and complete the requirements. We also used github and cloned the repository. The build process included the build tool called Maven and this is what managed our dependencies, which were stored in the pom.xml file. Dependencies are external libraries or frameworks that we need during compilation. They provide additional functionalities that are not part of the standard Java features and when needed in a particular file, they need to be imported. For our database setup, we use Postgres SQL. We created a file called table.sql where we store our provided information for users and products for the table.

Deployment Documentation

The steps to deployment documentation are simple. Clone the source code and setup our Postgres SQL. Then, once we configure the database connection, you build and run the project. In our case, it should display an ecommerce application.

