TechZone User Manual

This Full stack E-Commerce website has been constructed using Vite, React with TypeScript, Tailwind, and Java Spring Boot. PostgreSQL Database serves as the primary storage solution for data. Swagger is used for API design.

**For testing purposes, the following tools are required: **

- Code editor (VSCode for Frontend, IntelliJ for Backend) recommended.

- Database (PostgreSQL recommended)

Links to repositories:

- Frontend: https://github.com/shoaebkiyani/shopping-app-v1.1

- Backend: https://github.com/shoaebkiyani/shopping-app-v1.0_server

- PostgreSQL database can be installed using Docker or directly to the system.

How to use the application:

For the front-end part of the project:

- Clone the repository,

- Install node modules using `npm install`,

- Run the application using `npm run dev`.

To avoid any errors/surprises, make sure that the backend server is up and running and the PostgreSQL database is connected and started.

Make sure to update the `application.properties` file accordingly for proper connectivity of the database with the backend server.

For the back-end part of the project:

- Clone the repository,

- Make sure to have JAVA (JDK) installed on the system. This application is built on Java version 17.

- Run the application from the main file (in this project it is SpringSecurityApplication).

- Also make sure to have a database connected with the project. PostgreSQL is used in this project for storage and is configured in the `application.properties` file.

- A complete list of packages used in the project can be seen in the `pom.xml` file.

About the application:

This application has the following features:

Note: You might find some of the features missing. They will be added soon to the application.

- Registration / Signup

- Login

- Products List, Single Product Details

- Category

- Cart

- Place Order

- CRUD API

- Search Products

- Sorting, Filtering

- User

To test the application, the default user has an Admin role. To access the Admin Dashboard, please use the following credentials:

username: admin
password: admin

The admin user has the following features:

- see the list of products & categories,

- filter the products (in-stock or out-of-stock),

- sort the list based on price,

- add the product(s) & category,

- edit the product(s) & category,

- delete the product(s) & category,

- delete the user(s)

New users can only be created using the Register page. Admin cannot create a new user using the dashboard.

Note: To add a product, a category must be defined beforehand. Initially, the database will be empty therefore there will be no category and no product in the store.

The registered user / general user has the following features:

- Browse the products,

- Search for the specific product using the product name,

- Add the products to the shopping cart,

- Increment the product or remove the product from the cart,

- Place the order.

**Scenario 1: **

The user wants to buy an iPhone online. The user will browse the store online and find the product. The user can also be able to search for a specific product to see if it is available in the store or not. Furthermore, the user can see the details of the product by clicking the item.

Scenario 2:

If the user wants to place an order, the user must register first, if it is a new user or otherwise log in (At the moment this can be done without getting registered or login). The user can register through the Register page. Once the user is registered, the user will be diverted to the Login page where the user can log in with the right credentials and place the order.

Scenario 3:

The admin wants to add a new product or category to the database. The admin will log in with the given credentials and access the admin dashboard. In the admin dashboard, the admin will be able to see all the available products in the store. The admin has the right to add a new product, edit the already stored product, or delete the product. The admin also has the right to delete the user.

Thank you for using TechZone Web Store.