Shopping Application

Summary: The goal is to create a simple yet fully functional e-commerce mobile application interface for a shopping service. The users are the buyers/shoppers and may login, view product listings, add products to a shopping cart, etc... The backend is provided for you as either a JAR or Docker image. The following will be the acceptance criteria for this project

This project MUST be in Kotlin and compose, structured in the MVVM architecture. Your files should be organized into clearly labeled packages based on function and purpose (for examples see the demo code projects).

Requirements:

1. Login and Registration pages
    a. Connected to our provided backend
2. Main page (Shopping screen)
    a. user can add any amount of the items into cart with a dropdown menu for quantity (min 1 max 10)
3. Cart
    a. Cart can be displayed either as its own screen or over the shopping screen
    b. Cart should persist on app shut down as well as log out, but does not have to persist on app uninstall
    c. Item amount can be increased or decreased from within the cart
    d. Each item can also be removed
    e. Check out button should be in the cart
    f. On confirmation the user should be taken back to the home page and the cart should be emptied. The order should be saved into the database
4. Order history
    a. Shows all orders made by one user
5. BONUSES
    a. UI testing performed (minimum 15%)
    b. Item filter options (minimum 3 types filters)

        i. i.e. price low to high and high to low, hides all items over x amount, and sort by ascending and descending alphabetical order would count as 3 types
    c. Wishlist page
        i. Shows all items the user has wish listed and if it's currently in stock
        ii. Can remove from wishlist
        iii. Can add to cart directly from wishlist
        iv. Users have the option to wishlist any item whether it has stock or not

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Backend APIs: http://localhost:8080/v2/api-docs

Backend setup:

Docker: Download and install Docker Engine (you do NOT need Docker Desktop). From within the folder with the docker image, run the terminal and use the command “docker compose up” and the backend will begin running. You can then test the backend using postman.

JAR: From within the folder with the JAR file, use the command “java -jar OnlineShopping-0.0.1-jar-with-dependencies.jar” and it will begin running the backend Spring Boot application. You MUST set up the MySQL side yourself though. You need to install both MySQL and MySQL Workbench with the credentials we set up with.