Dorset College Dublin

ASSIGNMENT COVER SHEET 2023/2024

LECTURER NAME: Bernard Joseph Roche	
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PROGRAMME: BSC20923	**STAGE/YEAR: Year 2**
MODULE NAME: Mobile App 1	
ASSIGNMENT NO. & TITLE: Project - Online Shopping App	
GROUP (Names & Student IDs):	

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COMPONENTS OF SUBMISSION:

(e.g. no and type of pieces submitted, no of pages in a report, disk included?)

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SIGNATURE* Jefferson Da Silva Duarte DATE 22/04/2024

(* if this is a group assignment, each member of the group must sign).

Architecture

The app follows an MVVM (Model-View-ViewModel) architecture, where business logic is separated from the presentation layer. It uses Jetpack Compose to build the user interface.

Main Screens

Login_Screen: This is the initial screen of the app, where the user logs in using email and password to access the application. This login was configured with Firebase.

HomeScreen: This is the screen where users can view different categories of products and navigate to specific screens for each category.

ElectronicListScreen, JeweleryListScreen, MenClothingListScreen, WomenClothingListScreen: These screens display a list of products in a specific category, such as electronics, jewellery, men's clothing, and women's clothing, respectively. Users can click on a product to view additional details.

ProductDescriptionScreen: This screen shows the details of a specific product, such as title, image, price, and description. Users can add the product to the cart from this screen.

CartSummaryScreen: On this screen, users can see a summary of all items added to the cart, the quantity of each item, and the total price. They can also proceed to checkout from this screen.

AboutScreen: This screen provides information about the app, such as copyright and credits.

UserDetailsScreen: This screen displays user details, such as name, address, and phone number.

Key Features

Navigation: The app has a navigation system based on Compose Navigation, allowing users to easily navigate between screens.

API Integration: The app integrates with an external API to fetch product data and user details.

Scrolling: Screens with extensive content, such as product lists, introduce Lazy lists, which facilitate page scrolling and navigation.

Main Challenges

Overall, creating the project was a challenge, from how to consume API data and then display it on the screen using Gson.

Another challenge was manipulating information from one screen to another using compose navigation nevertheless, I couldn't pass product images to the CartSummaryScreen, and I couldn't create the user orders screen for the same reason.

I couldn't find a way to save the already selected products and keep adding others.