# Midterm Project

CS426 - Mobile Device Application Development

## **Project Context**

You are tasked with building a mobile application for a fictional coffee shop named "The Code Cup". This application allows users to conveniently place orders, collect reward points, and manage their accounts.

## Learning Objectives

The learning objectives of this project are to evaluate your ability to:

- Build a complete multi-screen application.
- Implement effective application state management.
- Handle user input and events.
- Implement basic business logic and manage local data.

### **General Requirements**

- This is an individual project.
- Students are permitted to use any framework of their choice, such as the native Android SDK, Flutter, React Native, or others.
- Regardless of the framework used, the application must target the Android platform.
- The project source code must be cleaned (i.e., remove all temporary build files) before submission.

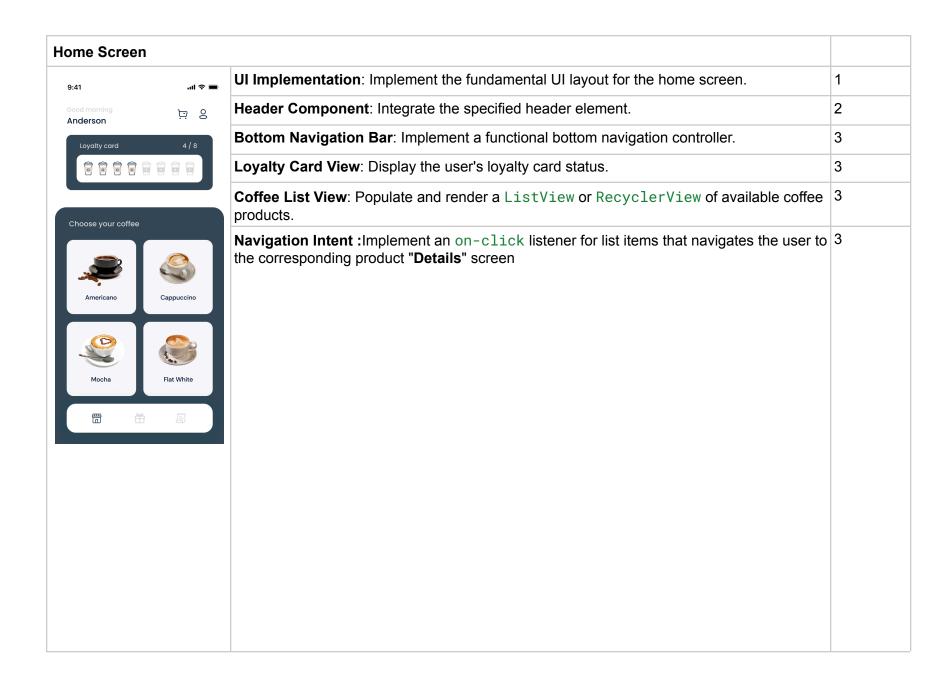
#### Submission Requirements

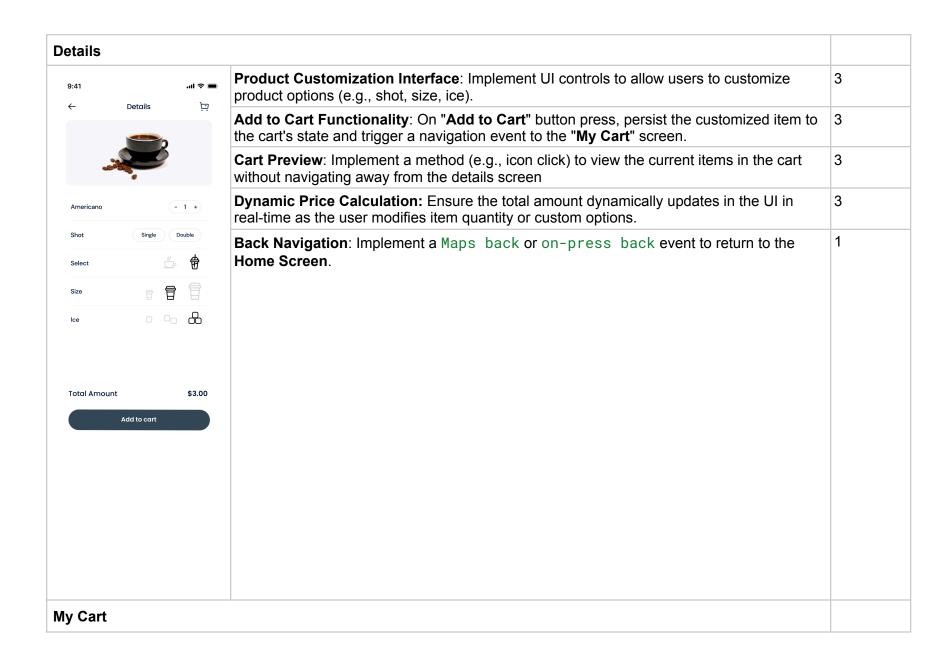
A .zip archive named StudentID.zip must be submitted. The archive must adhere to the following directory structure:

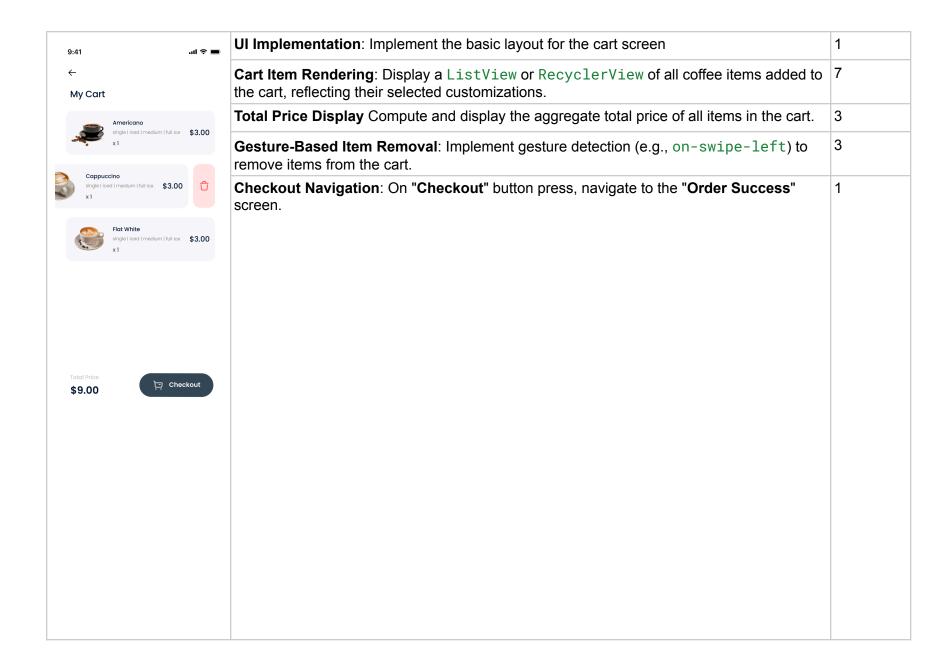
Deadlines: July 5th

## **Application Requirements**

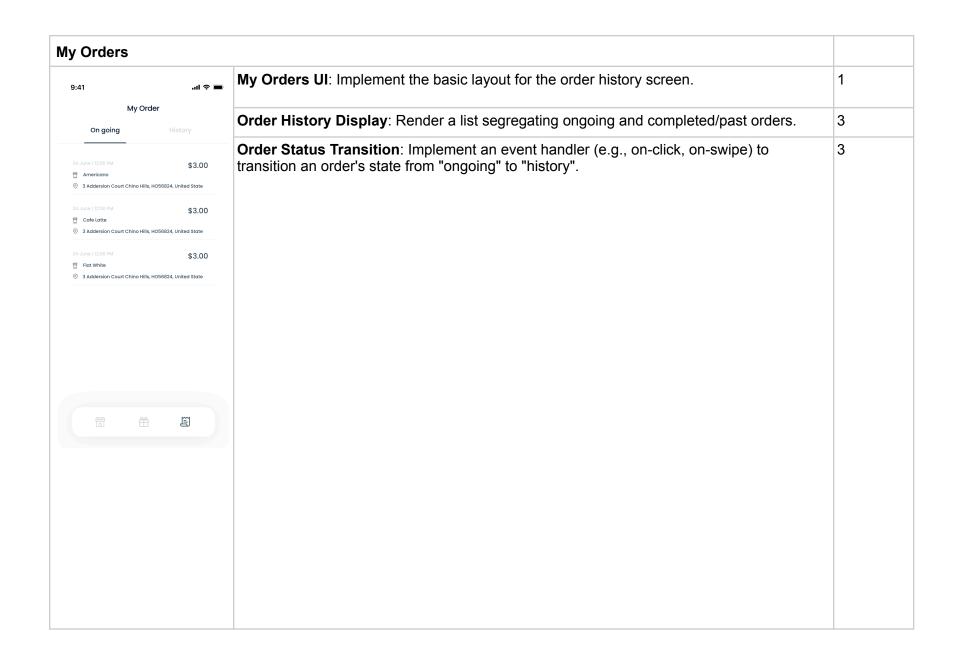
Create an app with the following features

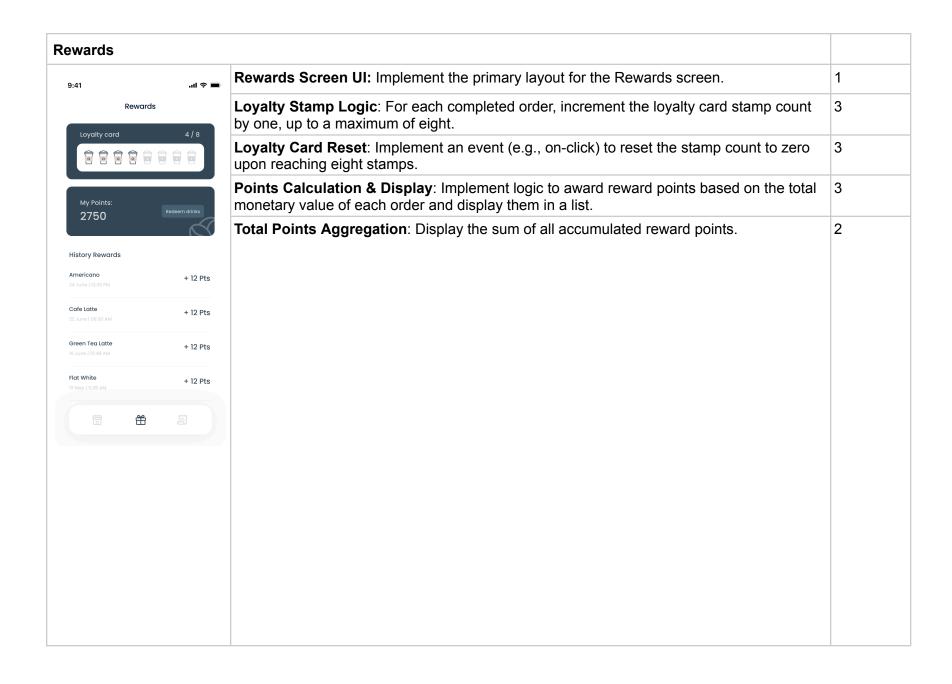






der Success		
9:41 대우 🖜	Order Success UI: Implement the layout for the order success confirmation screen.	1
	Track Order Navigation: On "Track My Order" press, navigate to the "My Orders" screen.	1
dub.		
Order Success		
Your order has been placed successfully.  For more details, go to my orders.		
Track My Order		





Redeen	n Reward	ls		
9:41	Redeem	제 송 🖜	<b>Points Redemption</b> : On a user action, allow the exchange of accumulated points for a product, and correctly decrement the total points.	3
	Cafe Latte Valid until 04.07.21	1340 pts		
	Flat White Valid until 04.07.21	1340 pts		
	Cappuccino Valid until 04.07.21	1340 pts		

ofil	le			
9:41		ul 🗢 🔳	UI Implementation: Implement the user profile screen layout.	3
	Profile		Profile Editing Functionality: Enable an edit mode via an icon press, allowing for	3
00	Full name Anderson	0_	modification of user profile data.	
8	Phone number +60134589525	0_		
$\odot$	Anderson@email.com	0_		
0	Address 3 Addersion Court Chino Hills, HO56824, United State	<i>P</i> _		

	State & Lifecycle Management: Implement robust state management to handle the	12
	application lifecycle (e.g., onPause, onResume, onStop) and preserve data across configuration changes.	12
	<b>Data Persistence &amp; Initialization</b> : Implement a data persistence strategy (e.g., SharedPreferences, Room, SQLite) and handle the initial seeding of required application data.	6
	<b>User-Defined Features</b> : Implement novel features or requirements beyond the scope of this document.	50
Total	Min(150, Total score of all requirements above)	150
Additional Criteria	Code Quality, Report & Demo (±10 Points): The final score may be adjusted by up to 10 points based on the quality, clarity, and organization of the source code, the project report, and the video demonstration.	[-15,+15]

#### Regulations and Support

#### **Academic Integrity**

- Plagiarism or direct copying of code from other students or online sources is strictly prohibited. All submitted code must be the student's own original work.
- The use of third-party libraries is permitted but must be properly attributed in the report.
- Any violation of these policies will result in a score of zero for the project and may be reported for further disciplinary action.

#### **Use of AI Tools**

- You are permitted to use Al-powered tools (e.g., GitHub Copilot, ChatGPT) to assist you.
- However, you are fully responsible for the code you submit. You must ensure that you thoroughly understand everything you add to your project.

• The instructor may ask you to explain how any part of your source code works during the final review. You must be able to explain the logic and functionality of the code you have submitted.

#### **Support Channel**

• All questions regarding the project requirements should be posted on the official class Facebook group for assistance.