

CMPS 312 Mobile Application Development

Lab 7 - Navigation

In this lab, you will practice:

- Basics of using Jetpack Navigation with Jetpack Compose
- Add Navigation UI components such as TopAppBar and Bottom Bar.
- Navigate between the app screens.
- Integrating a custom tab bar composable into your navigation hierarchy
- Navigating with arguments
- Navigating using deep links

Part A – Jetpack Compose

Complete the [Jetpack Compose Navigation](#) code lab.

Part B – Navigation

In this part, you will create a banking application where you will navigate from one screen to another and pass values between various screens.

1. Create a new project under the **Lab6-BankingApp** folder on your GitHub repo.
 - Name the project BankingApp
 - Use `cmps312.bankingapp` as the package.
 - Select *Empty Compose Activity* as the project template.

Add the following dependency in the module's build.gradle:

implementation "androidx.navigation:navigation-compose:{[latest version](#)}"

2. Create a sealed Screen class containing objects for each **HomeScreen**, **FundTransferScreen**, **DetailScreen** and **ConfirmationScreen**. UI for each screen should be as shown in Figure 5,6,7,8.
3. Create composable for all the screens. The name of the composable should be the same as the name of the object (of that screen) in the Screen class.

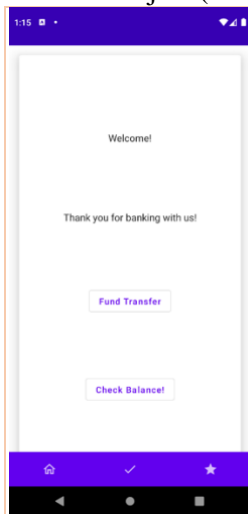


Figure 1. Home Screen

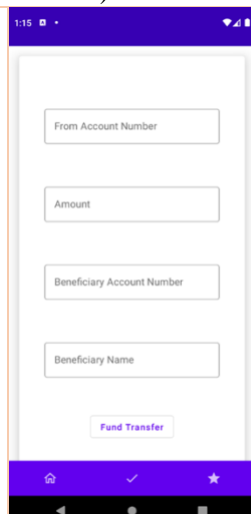


Figure 2.
FundTransferScreen

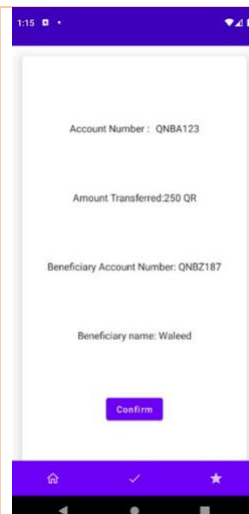


Figure 7. ConfirmationScreen

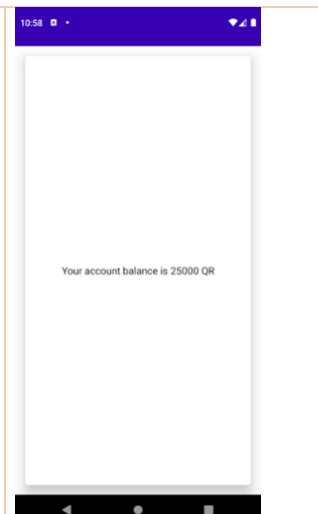


Figure 8 : DetailsScreen

4. When the Fund Transfer button is clicked, it navigates to the FundTransfer screen
5. After filling in the details and clicking the FundTransfer, we will be navigated to a Confirmation page
6. On clicking the Fund Transfer button and navigating to the ConfirmationScreen, we pass all the parameters, such as Account Number, Amount, Beneficiary Account Number, and Beneficiary Name to the ConfirmationScreen.
7. The confirmation page has been passed all the parameters from the FundTransfer page.
8. The confirm button raises a toast