

BCS 371 Lab – NavigationBar with Default Scaffold

Overview

In this lab you will create an app that contains a navigation bar.

Create a project

Create a new Android application in Android Studio. Choose the **Empty Activity** type to create an empty activity that uses Jetpack Compose.

Create screens and a NavHost

Do the following:

- Create screens for Home, Account, and Favorites. Each screen should just display the name of the screen. Here are the function headers (only pass in Modifier as a parameter):
 - fun HomeScreen(modifier: Modifier)
 - fun AccountScreen(modifier: Modifier)
 - fun FavoritesScreen(modifier: Modifier)
- Add a Nav function that contains a NavHost that will navigate between the screens. Here are some hints:
 - Declare the navHostController variable inside setContent in MainActivity.onCreate (instead of inside the Nav method like we have previously done).
 - The Nav function should now take the navHostController as a parameter. For example:
@Composable
fun Nav(navHostController: NavHostController, modifier: Modifier=Modifier)
 - Inside the Nav function, pass the modifier parameter into the NavHost.
 - The startDestination route should be HomeScreen.

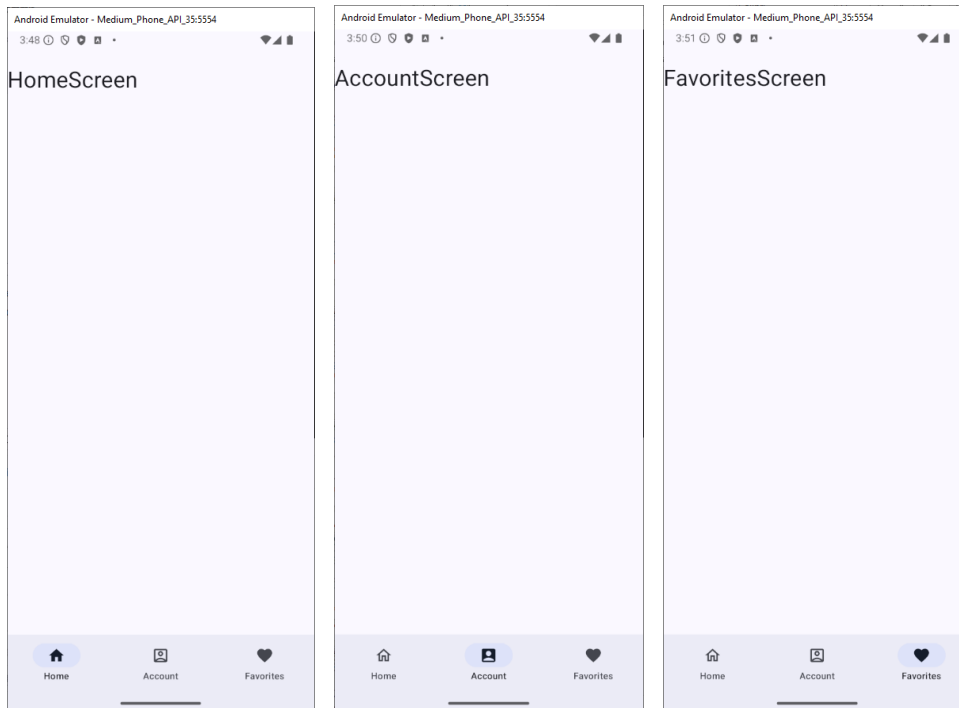
Add a NavigationBar

Here are the specifications:

- Add a NavigationBar to the Scaffold in MainActivity.onCreate.
 - Create the nav item class, nav item list, and supporting variables as necessary. Make sure to properly set the routes on the nav items.
 - The NavigationBar should contain the following three types of icons:
 - Home
 - AccountBox
 - Favorites

- Call Nav from inside MainActivity.onCreate's Scaffold.

Here are screenshots of clicking the navigation bar items (make sure the clicked item is highlighted):



Add code to print a toast when clicking a navigation bar item

It should print a toast with the title of the navigation bar item that was clicked (still no NavHost yet).

Here is a screenshot when clicking a Favorites item:

