BCS 371 Lab – Top App Bar and Floating Action Button

Overview

In this lab you will create an app that contains a top app bar and a floating action button (FAB).
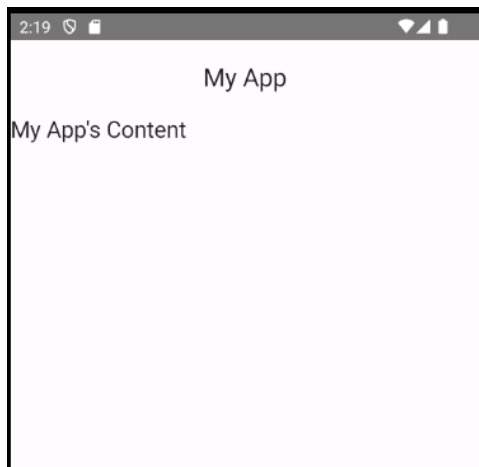
Create a project

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

Create an app that contains a top app bar

Here are the specifications:

- Create a composable function named DisplayTopAppBar that has code to display a top app bar. Here are the specifications:
    - Add a call to the CenterAlignedTopAppBar function.
    - Set the title property inside CenterAlignedTopAppBar to "My App".
- Create a composable function named MainScreen. It should display the string "My App's Content".
- Update the Scaffold in MainActivity.onCreate. Do the following:
    - Set the Scaffold's topAppBar parameter to call the DisplayTopAppBar function.
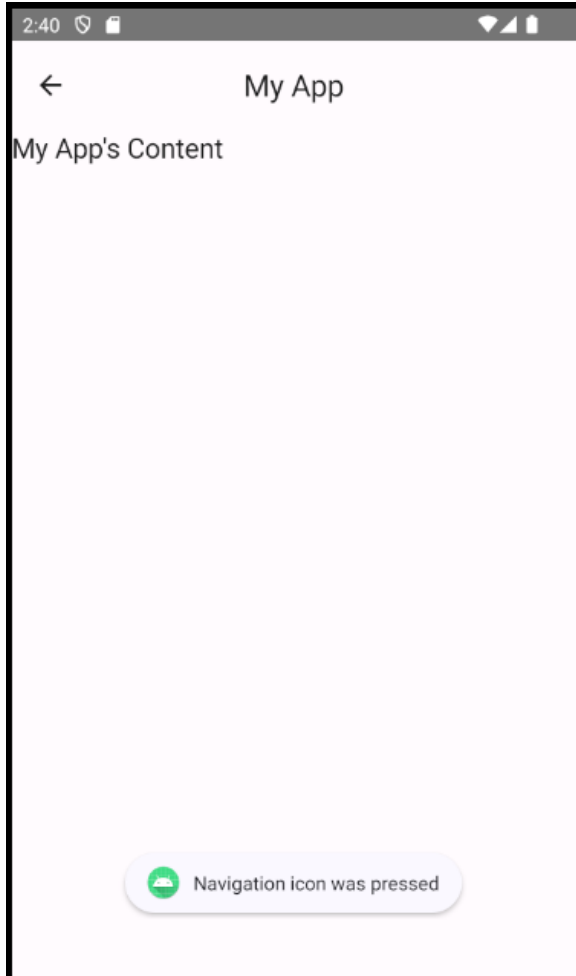   - Call the MainScreen function in the content area of the Scaffold.

It should look like the following:

Add a navigation icon to the top app bar

Add a navigation icon to the top app bar. Add code to make the navigation icon display a toast stating that it was pressed. For example, "Navigation icon was pressed".

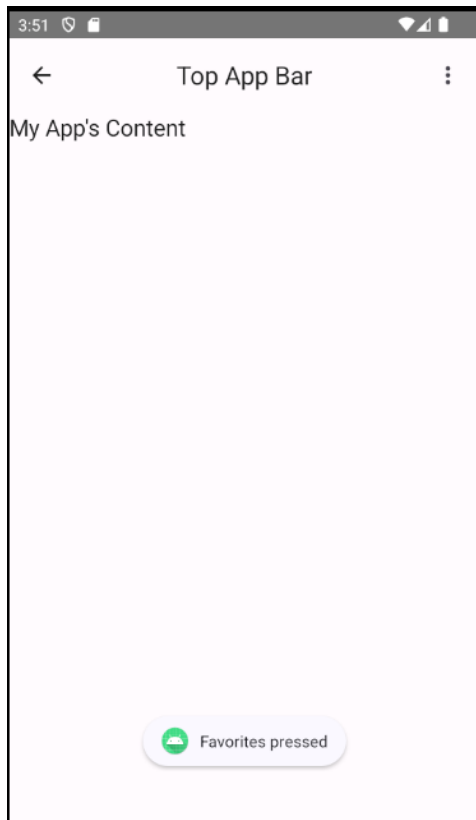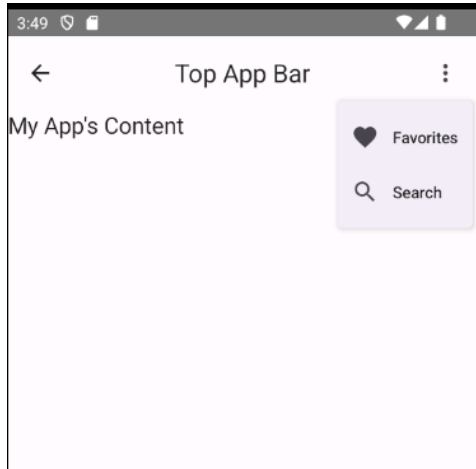It should look like the following:

Add actions to the top app bar

Do the following:

- Add an action icon to the top app bar. The icon should have three vertical dots.
- A drop-down menu should appear when pressing the action icon. It should contain the following two menu items:
  - Favorites – Display the favorites icon. When pressing this menu item, it should display "Favorites action pressed" in a toast and it should make the menu disappear.
  - Search – Display the search icon. When pressing this menu item, it should display "Favorites action pressed" in a toast and it should make the menu disappear.

It should look like the following screens before and pressing the Favorites menu item:
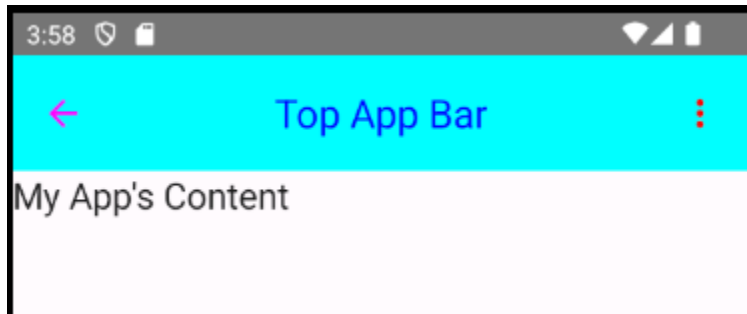

Add colors to the top app bar

Set colors in the top app bar as follows:

- Title Text – Blue.
- Container – Cyan.
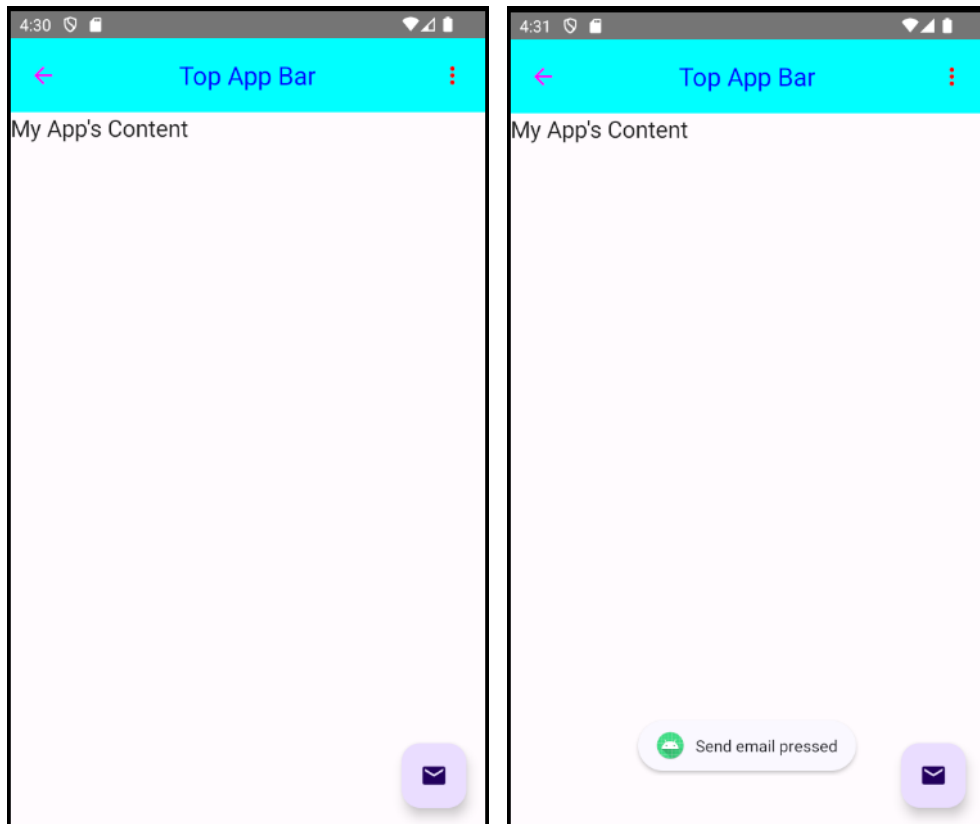- Navigation Icon – Magenta.
- Action Icon – Red.

It should look like the following:

Add a floating action button (FAB)

Add a floating action button to send an email. When pressing the FAB it should display "Send email pressed" in a toast.

It should look like the following:

Add screen navigation for actions

Add screens for favorites and search. Just add a Text to each screen with that screen's name. Add a NavHost to the app and make the appropriate changes to enable it to navigate to the appropriate screen depending on which menu item is pressed.