



National University of Sciences and Technology (NUST)
School of Electrical Engineering and Computer Science

Department of Computing

EC-303: Mobile Application Development

Class: BESE 8AB + BSCS 7ABC

**Lab 04: Navigations : Navigation Bar, Drawer Navigation, Top Tab
Navigation Bar , Bottom Tab Navigation Bar**

Date: 10th March 2021

Time: 9:00 AM - 11:50 AM

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Lab Engineer: Mr. Aftab Farooq



Lab 4: Navigations : Drawer Navigation, Top Tab Navigation Bar, Bottom Tab Navigation Bar.

Objectives

The objective of this lab is helping students to familiarize themselves with the different types of Navigation bar that includes Drawer Navigation, Top Tab Navigation Bar, Bottom Tab Navigation Bar.

Tools/Software Requirement

Flutter, Android Studio, XCode, Any Editor

Helping Material:

- Flutter official Documentation
- <https://www.solutelabs.com/blog/flutter-tutorial-for-beginners-step-by-step-guide>.
- Stack overflow

Helping Link for Icons & Logo:

- <https://icons8.com/icons/set/mobile-app>

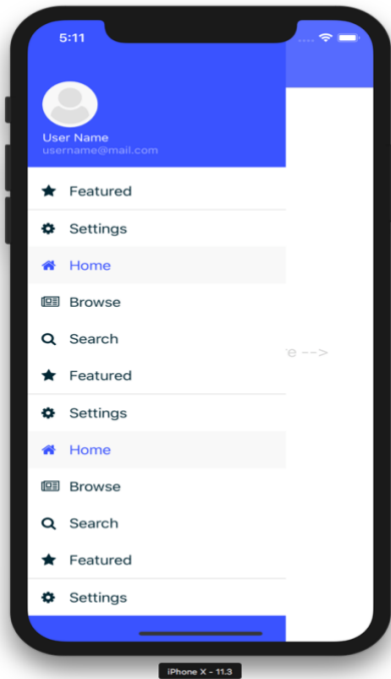
Lab Tasks

Task # 1

Drawer Navigation :

- 1). Continue with last lab work and after pressing a Login button Implement a Drawer Navigation (like shown below)
 - a). Add main menu icon image on top right side and when user click on that icon Drawer Navigation will be open.
 - b). Make a image placeholder and add any profile pic (corners are round as shown below).
 - c). Add user name label and email address label below the profile pic.
 - d). Implement a static list that has Menu items.
 - e). Must include icon with each row in a List. (Icon Must Match with item menu names)
 - f). Add 4 to 5 menu items in a list on your own choice.
 - g). when user click on any menu item a separate screen is visible to user.
 - h). create a view or navigation bar for each screen and set a menu item title on it. When user click any menu item from a list then show that particular screen.
 - I). Add a label in center on each screen and show screen no on each screen when that particular screen is visible to user.

Note : For getting icons you can use the above helping link that I shared with you.

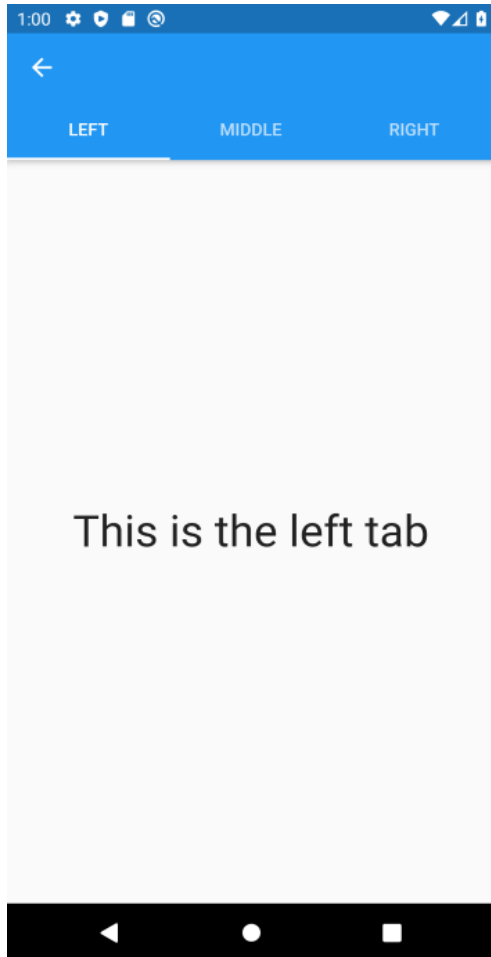


Task # 2

Top Navigation :

2). Continue with last lab work and after pressing a Login button Implement a Top Tab Navigation Bar (like shown below)

- Create three screens and add a label in center and set label (My First screen, My second screen, My Third screen).
- Create three Top tab menu items.
- When user click on any top tab menu item that specific screen is visible to user.
- User can switch between screen by clicking on tabs.

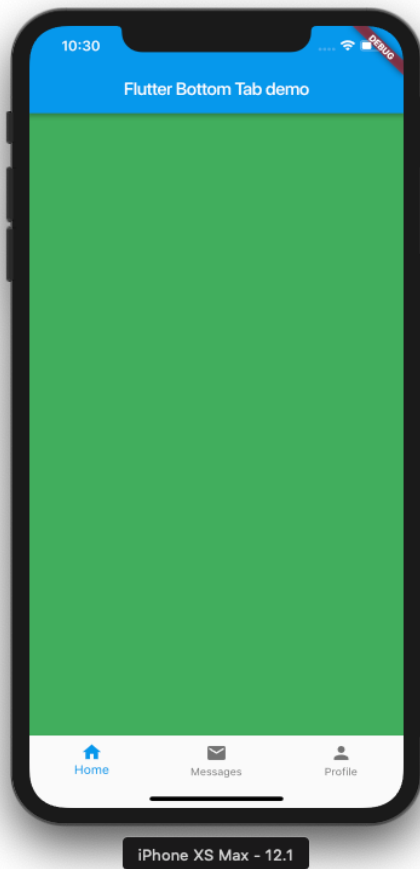


Task # 3

Bottom Tab Navigation :

3). Continue with last lab work and after pressing a Login button Implement a Bottom Tab Navigation Bar (like shown below)

- a). create three bottom tabs. When user click on any bottom tab it's become highlighted as shown below.
- b). Create three screens and add a label in center and set label (My First page, My second page, My Third page, , My Third page).
- c) When user click on any bottom tab menu item that specific screen is visible to user.
- d) User can switch between screen by clicking on bottom tabs.



Solution

Task Code:

Task Output Screenshot:

Deliverable

Compile a single word document by filling in the solution part and submit this Word file on LMS. This lab grading policy is as follows: The lab is graded between 0 to 10 marks. The submitted solution can get a maximum of 5 marks. At the end of each lab or in the next lab, there will be a viva/quiz related to the tasks. You must show the implementation of the tasks in the designing tool, along with your complete Word document to get your work graded. You must also submit this Word document on the LMS. In case of any problems with submissions on LMS, submit your Lab assignments by emailing it to Mr. Aftab Farooq: aftab.farooq@seecs.edu.pk.