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 05: Passing data from widgets

Date: 16th March 2021

Time: 10:00 AM - 12:50 AM

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Lab Engineer: Mr. Aftab Farooq

Lab 5: Passing data from widgets

Objectives

The objective of this lab is helping students to familiarize themselves that how to pass data from widgets.

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.
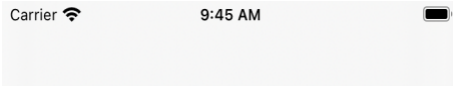- Stack overflow

Helping Link for Icons & Logo:
- https://icons8.com/icons/set/mobile-app

Lab Tasks

Task # 1

Passing data from widgets:

A). Continue your Lab-3 work.

    1). Change a email field to user name (change placeholder to user name).
    2). Apply a validation that user can not proceed further if any text fields is empty i.e. (user name & password).
    3). Create a new view i.e. **Home view or Main view**
    4). when user presses on login button pass **user name** to next view that is your home view or Main view.
    5). Display your **user name** on the top navigation bar**.**
    6). Create a two text fields and one button i.e. **Proceed or Save.** (like shown below)
    7). Apply a validation that both text fields has **Int values** and cannot be **empty**. Check validations by pressing the **proceed button**

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Proceed

Task # 2

B). Pass Data from widgets (from two text fields) to next view i.e. your calculation view.

   1). Create a new view that is **calculation view.**
   2). Add a back button on **calculation view** i.e. user can go back.
   3). Pass text fields data from **Home view** to **calculation view**.
   4). Do some calculations on passed data (like shown below).

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.