

Final-Term Exam (TEST02)– SECTION -002**Date: Sunday, 15th Aug, 2021****Time: 8.00 am to Mid-night****Marks/Weightage: 50/25%****Instructions:** Be sure to read the following general instructions carefully:

This is an open book exam. You can refer text book, lab examples, study notes, ppts and can access internet. You can use lab computer or your laptop. Your IDE/Software is XCode 12 /Swift 4.0/5.0 which you need to complete this programming exercise.

This exam should be completed individually by all the students. You will have to upload the test **through Final-Term Exam link on Blackboard.**

You must name your Xcode projects according to the following rule:

Firstname-Lastname_Course-code-Section_Final-Term

For Example: Bob-Smith_COMP2125-002_Final-Term

Zip the above folder into a zip file (**Bob-Smith_COMP2125-002_Final-Term.zip**) and submit/upload your solution using the link in Blackboard

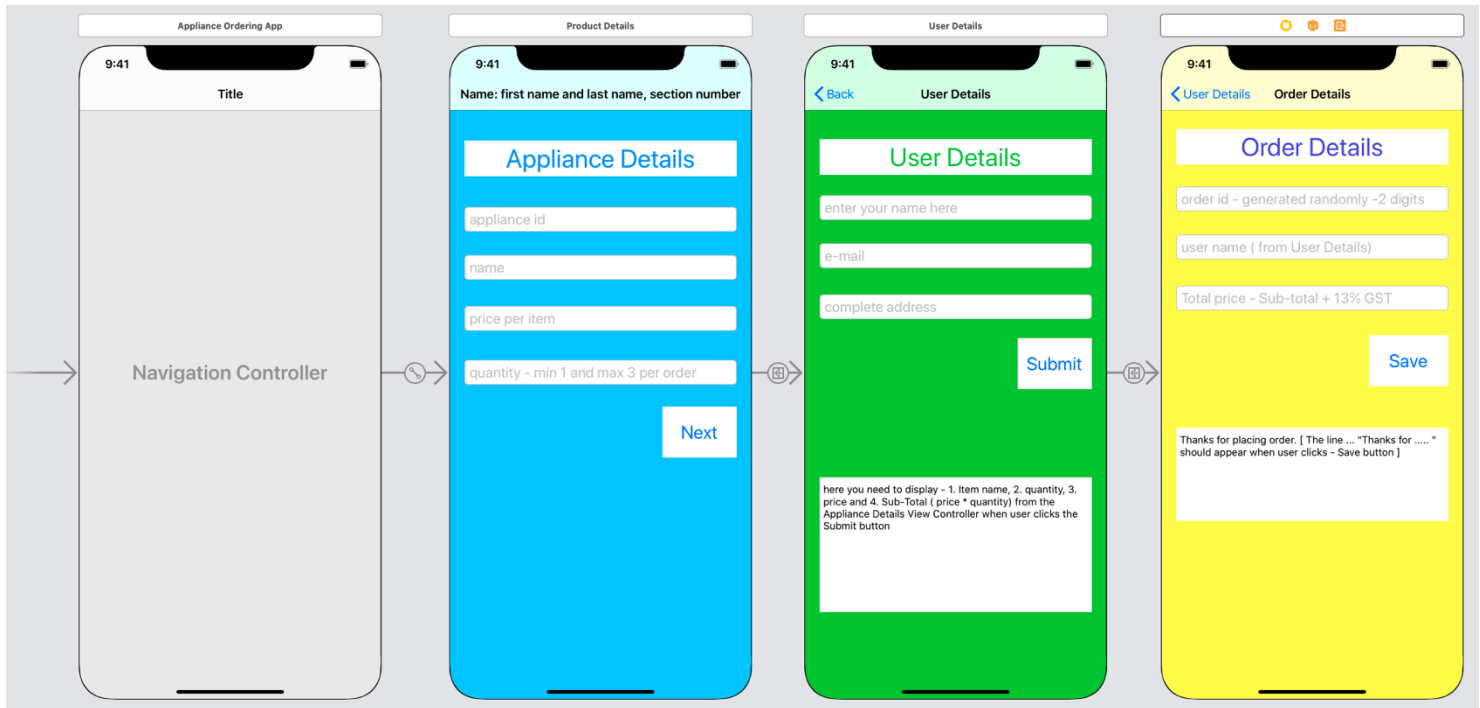
Note: Academic dishonesty in any form is not allowed. You are not allowed to text, share, e-mail, and communicate during the test. This exam must be completed individually by all the students.

Very Important: If someone fails to upload it by due date and time, then it will not be considered.

Exercise 01:**[50 marks]**

Build the following app as shown in the screen shot below.

- a) Building the GUI as shown in the screenshot including the naming/titles of each of them – **[15 marks]**
- b) Having three view controllers and navigation among them by use of Navigation Controller and storyboard ID for navigation. **[10 marks]**
- c) Data/value passing between these view controllers and validations of values in the controls as shown. (explained in the GUI itself) as shown. **[15 marks]**
 - a. Appliance ID should of 3 digits and randomly generated
 - b. Name can not be empty and price should be greater than zero
 - c. In User Details view controller, all the text fields should not be empty when user clicks Submit button
- d) Testing of app to see if it is working as expected and giving intended output – **[5 marks]**
- e) You can choose any background colors of your choice for the views
- f) Exception handling and auto-layout implementation **[5 marks]**

**Evaluation Rubric:**

Functionality	
Correct layout of GUI controls, proper implementation of view controllers and classes, functions and various class members and code logic as per business/functional requirements	75%
Correct use and testing of all the functionalities developed	15%
Comments, correct naming of variables, methods etc.	5%
User Friendly input/output	
Total	100%