DEPARTMENT OF COMPUTING

ISYS254 2019 – ASSIGNMENT TWO PART TWO (15%)
Applications Modelling and Development
Application Development Project-Application Development
Friday May 31, Wk12, 11.59 pm (out of 45)
(Groupwork-based assignment)

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Overview of Assignment-2 part-2

This assignment focuses on the development of a mobile application on Android operating system using React Native. You will be developing an application for CCS (Campus Common System) that you have been working on through the other assignments.

Task Description:

Task 1: Development of selected screens [30 marks]

Some project template files have been provided in the assignments section on iLearn as a prototype to help get you started. There are some extra instructions to help guide the setup process. The rest of Task 1 outlines the requirements that needs to be implemented in the application.

1. **Welcome Screen- Checklist**
    - **A welcome heading**
    - **Choose a place of business** dropdown:
      The first dropdown you see is 'Choose a place of business'. Fill the dropdown to display any five (5) businesses. You could choose any place of business from campus common. E.g. Boost juice, Iku wholefoods, etc.
    - **'Proceed'** button:
      This should take you to the Menu Items screen
    - Change the look and feel of the screen

2. **Menu Items Screen- Checklist**
    - **A heading** displaying the name of the restaurant chosen from the Welcome Screen
    - **Food item** dropdown:
      In the first dropdown, provide five (5) or more food items. They should contain values like this
      'Falafel roll-$12'
      'Sweet potato fries-$10'
      For simplicity reasons, we will assume price to be a double-digit value without any decimal point.
      Also note that: You are not implementing this for every business. if you change the place of business, the menu wouldn't change. You are just implementing this for a sample business.
    - **Drinks** dropdown:
      In the first dropdown, provide five (5) drinks items. They should contain values like this
      'Banana smoothie-$6'
      'Apple juice-$4'
      Again, for simplicity reasons, we will assume price to be a single-digit value without any decimal point.

- **Choose Quantity** dropdown:
  For each of the chosen menu item, there is a corresponding quantity. Quantity will have numbers between 1 and 5.
- **Proceed** button:
  Once the values are selected, when proceed button is clicked, it should take you to summary screen.
- Change the look and feel of the screen

3. **Summary screen- Checklist**
   - Display values:
     These values must be displayed
     1. Thank you message
     2. Summary of the order
     3. Total cost of the order
     4. A message displaying 'Your order will be ready for pickup in 15 minutes'
     5. A message displaying 'App developed by Student IDs and names of group members

Task 2: Test cases [10 marks]

Two clearly documented test cases must be written with test values and results filled in (pass/fail). This can be a word or PDF file. The file is to be submitted with your code submission on iLearn by the assignment deadline.

In week 13 when marking your group, the tutor will run through the tests cases and ensure that the same results occur as have been outlined when you ran the test. A template for tests cases has been provided in the Assignments section on iLearn.

Task 3: Discussion [10 marks]

All group members need to attend the same workshop in week 13. During that class, your group will be demonstrating your system to the marker. During this demonstration, you will each be asked questions based on the work presented to test each group member's understanding of the system. If you are not present for the discussion component, you will be awarded zero marks. If an individual scores zero (0) here, the maximum mark for the submission will be 30% (13.5/45) for that student assuming the work is not done equally by the group.

Things to note:

- The basic design of the app is provided. **You are not allowed to add extra screens**. However, if you want to add extra details on the screen, that is acceptable
- Only a basic template is provided. **You are expected to change the look & feel of app**. Please refer to the marking guide for further instructions
- The application should work **without crashing and must display the right output**.

Submission instructions:

1. Please submit the following by the deadline specified on the iLearn submission:
   - A compressed folder (zip) of the following files / folders from your project:
     - File: App.js
     - File: package.json
     - File: app.json
     - Folder: components/   (and all other files / folders inside components)
     - Any other images / files you have added. Please make sure any other files / images you have added for your project are within the components folder.
   - Please add the test cases and your test results as a word, rtf, or pdf document from Task 2 and include this in the zip file.
   - **DO NOT include the node-modules folder, android folder, or the ios folder.** (when we run your test in the labs, we will download your code into a new react-native project, run npm install to include any extra libraries you use.)
2. Please submit your work as a group. The assignment submission box is a group submission box.
3. Note: you can submit early, and as many times as you want up until the deadline. Consider submitting something early as a backup in case things go wrong at the last minute.

Marking Criteria

Task 1 (out of 30)	
Welcome Screen elements & functionality (out of 3)	
Welcome heading	/1
Place of business dropdown filled with 5 elements?	/1
Proceed navigates to menu items screen?	/1
Menu Items Screen elements & functionality (out of 7)	
Heading	/1
Food items dropdown filled with 5 elements?	/1
Drinks dropdown filled with 5 elements?	/1
2 * Quantity dropdown filled with 5 numbers?	/2
Proceed navigates to summary screen?	/2
Menu Items Screen elements & functionality (out of 5)	
Thank you message	/1
Summary of the order	/1
Total cost of the order	/1
A message displaying 'Your order will be ready for pickup in 15 minutes'	/1
A message displaying 'App developed by Student IDs and names of group members	/1
Total	**/15**
Calculations (out of 10)	
Calculations are correct? (Menuitem price 1*Qnty1) +(Menuitem price 2*Qnty2)	/5
Summary of order values	/5
Total	**/10**
Look and feel of app changed? (out of 5)	
Effort in changing the look and feel of app	/5
Total	**/5**
Task 2 (out of 5)	
Test Case (out of 5)	
Tests range of values	/1
Good coverage of features	/1
Shows results (pass/fail)	/1
Includes expected results	/1
Clearly documented	/1
Total	**/5**
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Task 3 (out of 10)	
Discussion Questions	
Question1	/2
Question2	/4
Question3	/4
Total	/10
Assignment submitted online by deadline? (20% penalty per day)	
TOTAL IMPLEMENTATION	/45.00

FAQs from last semester

1. **Are the labs locked over the weekend, and if so, how are they unlocked?**

   No, they are not. Labs are open over the weekend -9 AM to 5 PM. Outside of those times, they get locked on weekends.

2. **Can I design using Android Studio?**

   No, please use React Native for your development

3. **Can I use any design elements such as textbox, dropdown, etc?**

   Yes, you can

4. **How do I have different menu for different businesses?**

   You don't have to. The Menu is hard-coded for one business only

5. **I am not sure how to write test cases! Please help**

   Please see testcase template provided in assignment-2 folder. Please also use the forums. If you have a question, it is highly likely that others would benefit from the answer to your question too.

6. **What do you mean by changing look and feel?**

   Only a template is provided. You need to completely change the look and feel of the app. It shouldn't look like the template provided at all. You are allowed to add images, external components-Impress us!