 **COMSATS University Islamabad Lahore Campus**

**Lab Final Term – Spring 202****3**

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| Course Title: | Mobile App Development | | | | Course Code: | | CSC 303 | Credit Hours: | 3(2,1) |
| Course Instructor/s: | Akhzar Nazir | | | | Program Name: | | BS CS, BS SE | | |
| Semester: | 5th 6th 7th | Batch: | SP 21 | Section: | A,B,C | | Date: | 09-06-2023 | |
| **Time Allowed:** | **150 Minutes** | | | | **Maximum Marks:** | | | **50** | |
| Student’s Name: |  | | | | Reg. No. |  | | | |
| **Important Instructions / Guidelines:**   * Avoid overwriting and cutting. * Read the questions carefully. | | | | | | | | | |

**Develop React Native App, connect it with firebase, fetch data from Realtime DB or Firestone, Navigation should be working with Bottom Tab and side menu options.**

**Section A**

**[30 Marks]**

1. Fetch data from firebase and show it in Flat List [Don’t waste your time in designing of Flat List]. [**10 Marks**]
2. Apply pagination fetch 10 records first, if user scroll to bottom fetch 10 more records and so one. **[10 Marks]**
3. Tap on any record should move to next screen [For example next Screen name is Dashboard], When user tap on back button on Dashboard Screen App should kill instead of going back **[10 Marks]**

**Section B**

**[20 Marks]**

This section will be consisting of different tasks for different students, to select your task divide your roll number with 7 and get remainder [In case your roll number is 24, remainder will be 3, you will only attempt question number 3 and in case of 0 attempt question number 1]

1. Set some values on Firebase to change the app from Light to Dark mode and vice versa [App should be changed according to value change without any wait].
2. Set some values on Firebase to decide whether you needed Side menu or Bottom Tab [Setting one value should suddenly change app orientation].
3. Set some values on firebase to decide whether you want to show records in FlatList or SectionList [In this case no need to change the Array just use Dummy data to shift your FlatList into Section and vice versa].
4. Set some values on firebase to decide Whether you need Rider side or Driver side of your UBER like app [I should be done without any tap on App side], Don’t focus on design.
5. Set some values on Firebase to decide whether you need your app in URDU or English [In Case of URDU all app should align right as URDU is right to left language and vice versa.
6. When app start check your phone [Is this app running on iOS or Android] and set value on Firebase. Complete logic should be like this how many users use app today on iPhone and Android