COMSATS UNIVERSITY ISLAMABAD
Abbottabad Campus

Department of Computer Science

MID TERM EXAMINATION SPRING 2023

Class: BSE 5TH A,B
Subject: Mobile Application Development
Total Time Allowed: 1.5 hour
Student Name:_____

Date: 18-May-2023
Instructor: JAWAD KHAN
Max Marks: 40
Registration #_____

SECTION-A
(Marks 20)

1. Briefly explain the difference between

   (a): Mobile Web Apps and Hybrid Apps, (b) FlatList and ScrollView, (c) React and React native Frameworks. [CLO-1][Marks: 5]

2. Write a function component to show grade of a student for the given marks. The marks are provided to a javascript arrow function as argument, e.g., calculateGrade(marks) which is called in the <Text></Text> of function component. Here is the grade distribution:

   < 50 --- F
   >= 50 and < 60 --- E
   >= 60 and < 70 --- D
   >= 70 and < 80 --- C
   >= 80 and < 90 --- B
   >= 90 --- A [CLO-2][Marks: 5].

3. Use props and pass names of students from a Name() function component to Attendance() function component. The following should be the output by Attendance() function component.

Hassan	Absent
Mansoor	Present
Haleema	Absent
Mustafa	Present
Bilal	Absent

   [CLO-3][Marks: 5]

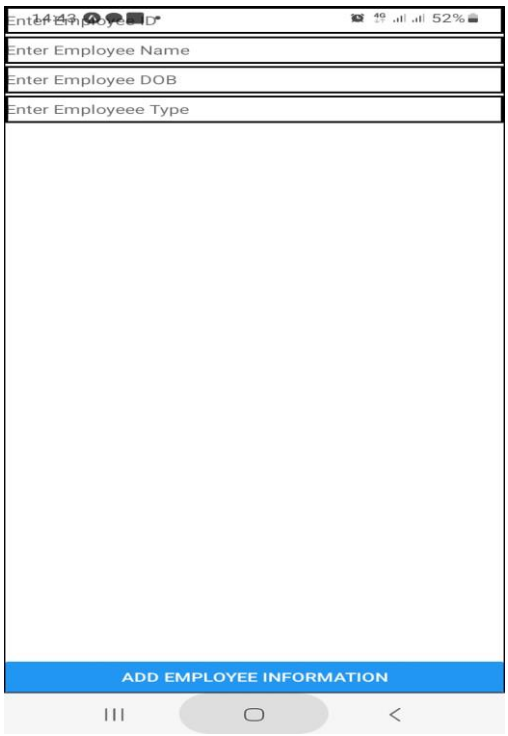
4. Explain the following methods of react-native with example

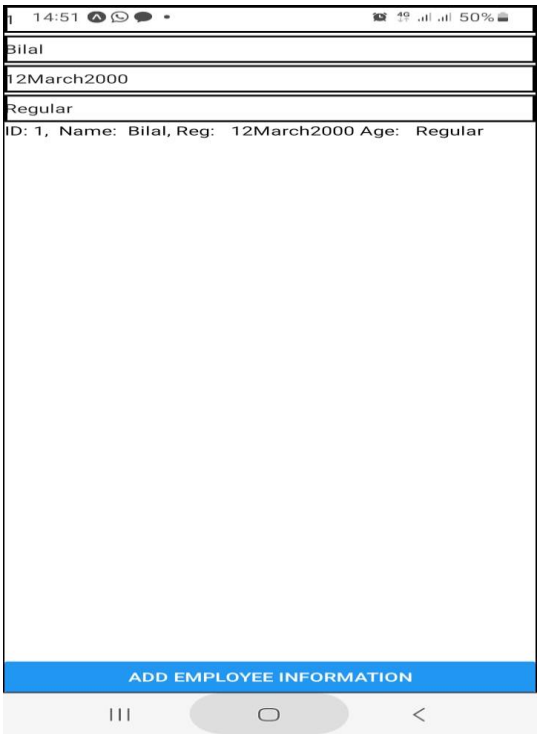
(a) Navigation.popToTop()
(b) Navigation.navigate()
(c) Route.params
(d) Navigation.push() [CLO-4][Marks: 5]

SECTION-B

(Marks: 20)

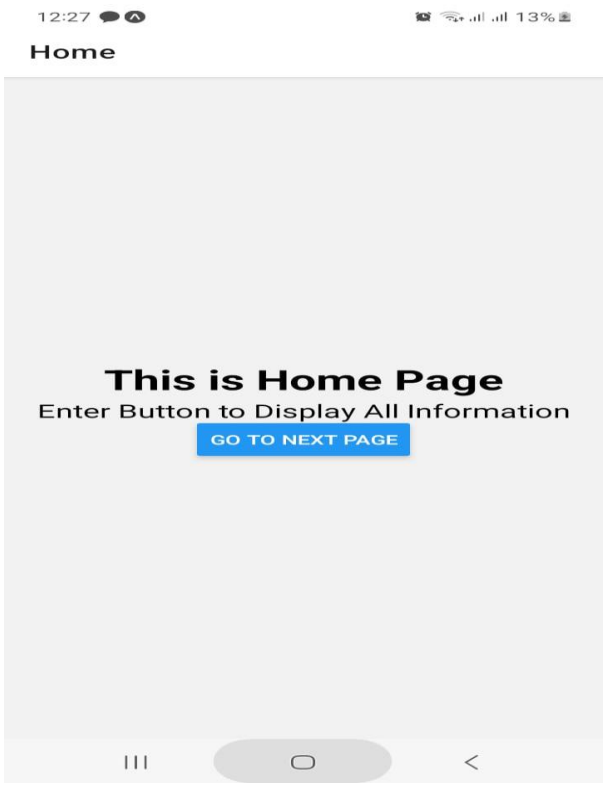
3. Create a flat list consisting array of objects with following attributes: Employee ID, Employee Name, Employee DOB, Employee Type. The flatlist should be populated dynamically when user Enter button while entering values in TextInputs as show in below diagram.

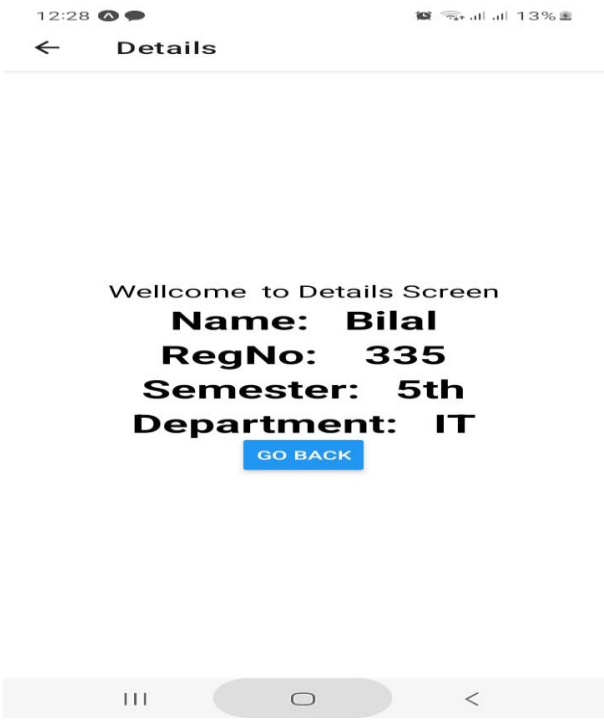




[CLO-3] [Marks: 10]

4. . By using React -navigation build react native app for the following scenario
   The App contain the Two pages i.e. (Home Page, Details Page).
   All these pages must be define in header bar as well giving different color to each button as shown in figure.
   Home Page: It is the initial page the user will see when app open. This page contain just information about welcome to home page. From this Home page you have to send name, Registration Number, Semester and Department to Details page.
   Details Page: Display all information while using **route.params** like Name, Registration and Class as shown figure


12:27
13%
Home
This is Home Page
Enter Button to Display All Information
GO TO NEXT PAGE


12:28
13%
Details
Wellcome to Details Screen
Name: Bilal
RegNo: 335
Semester: 5th
Department: IT
GO BACK

[CLO-4] [Marks: 10]