

## Lab Assignment 2

1. Maximum 2 group members per group
2. Viva of each group will be taken
3. Assignment code found matching with ChatGPT/ GPT4 / Bard / or any other AI tool will be rejected.
4. Same assignment code with two or more than 2 groups will be rejected.
5. Viva will begin right after 1 week of uploading of this assignment, and students will appear in viva in the order of attendance sheet
6. Each group will also submit the hardcopy of assignment with clearly mentioning the following items on first page:
  - Registration Numbers,
  - Names,
  - Lab Assignment 2,
  - Section, and
  - URL of github.

### Question 1:

You need to use React's context API for the following program. Create four screens screen1, screen2, screen3, and screen4. Create a global storage for screen 1 and screen 2 containing registration and name. Both screens should show the existing values of registration number and name, and the values could be updated in screen 2. Create another global storage for screen3 and screen4, containing city name and city province. The values of city and its province should show in both screens 3 and 4, and should be updated in screen 4.

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### Question 2:

You need to create a student information system using asynchronous storage. The following are the screens of the student information system:

#### **Admin Module:**

Admin Login Screen:

An admin will be able to login to the system using his username password: admin / 123.

Student Registration Screen:

An admin will be able to register students using registration screen by providing the following information: Registration number, student name, password.

Search Screen:

On search screen, an admin will be able to search a student either by providing name, or registration number.

### **Student Module:**

Student Login screen:

A student will be able to login to the system using his/her registration number and password.

When a student logs in, his name and registration number will be shown on every screen as title (Use redux toolkit for that).

Course Registration Screen:

A student will be able to register courses in this screen by providing following information: Course Id, Course Title. (Make the courses available in a drop down list).

Home Screen.

On home screen, a student will be able to see the registered courses.

Search Screen.

On search screen, a student will be able to search any course he registered.

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### **Question 3:**

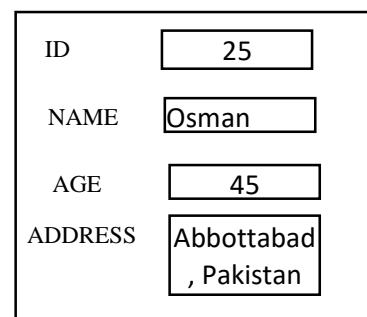
Write an application that asks for an ID from user in RecordSearch screen. When the user enters the ID, the record is shown against the ID in the RecordView screen. The record is fetched from SQLite Database.

Record Search Activity



The Record Search Activity screen contains a text input field labeled "Enter ID" and a "SEARCH" button.

View Record Activity



The View Record Activity screen displays a record with the following fields: ID (25), NAME (Osman), AGE (45), and ADDRESS (Abbottabad, Pakistan).

#### Question 4

You need to create a web / mobile application using react native and PHP. Here is the description of the application.

Customer:

A table to contain customers information that can purchase products from the website

Products:

A table of products

Order:

A table that contains orders for various products, the orders are placed by the customers.

Order Details:

A table that contains order id, product id as foreign keys and stores which products are ordered by a customer in a particular order.

You need to:

Develop a customer module where a customer can place various orders. The products should be maintained in a shopping cart. On checkout a textinput will be provided to enter a fake card info.

A seller module where he can add products and can see the orders placed by the customer. The seller should be able to complete the orders as we usually see in e-commerce applications.