

CSE 450 - Mobile App Development
Final Examination
Dated: Tuesday, 23rd May 2023

Note: Submit on LMS within time. No late submission allowed or time extension. You can use Flutter documentation and stackoverflow for help. **ZERO marks awarded on use of CHATGPT and Github Copilot.**

Scenario: You need to make an app with a provider UI that contains a list of friends. App contains **Four** screens: Login Screen, Dashboard (list of friends from firebase), Add/Edit and Profile screen (Static Screen). Stop here First watch sample video of application. Make sure proper BLOC (State management) is implemented. You can use packages for BLOC, Firebase and error indication only. Don't use any package for UI implementation.

LOGIN SCREEN:

Login screen looks exactly the same as in the screenshot. Make sure the widget is properly aligned and right in direction like Sign in text looks vertical. So when you submit the right login credential it will navigate to the **Dashboard** screen. On invalid credentials show any error indicating your choice (You can use a package for show error).

- Email field should properly validate via Regex provider in Custom class a method **isValidMethod**. Please show error on invalid email below text field.
- Make sure the password field should be **Obscure**.

Background color, regex and Field validator provided inside CustomClass so just map it.

Add/Edit SCREEN:

Add screen contains text fields Name, Email and contact no. Each field validation by validator provided in CustomClass. Show proper error message when any field data invalid entered. On submit button tap record added on firebase and app navigate to Dashboard screen and record show here. Same screen flow used in edit records. Watch the attached video to understand the flow.

DASHBOARD SCREEN:

In this screen your list of friends from firebase and linked.

- Firebase doc fields are **Name, Email, ContactNo, ProfileAvatar, Createdtime** link (Use any link from the internet and use it. No need to integrate firebase storage)
- Show friend list records in Both **List** and **Grid view**. When the user clicks on a list **SegmentControl** shows records in the list and when on the grid icon shows records in the grid exactly the same.
- In each record item there is a delete icon so when tapping on delete icon record delete from firebase and mobile UI without **setstate**.
- When you tap on a record it will navigate to edit the form of details and make sure each record is updated (Suggestion: Better implement this after the addition screen use the same screen for add edit.).
- Bottom navigation bar contains two icons: Home(Dashboard screen) and Profile screen. By default the Dashboard screen should be visible and when tap on Profile icon navigate to Profile screen.

PROFILE SCREEN:

In BottomNavigationBar tap on profile icon Profile screen should be visible. This is a static screen (Just UI) and no need to connect from firebase. But, make sure your UI looks exactly the same.

- Use any Avatar image you want and make and refer from the assets folder you project.
- Use material icons with the tile name.
(Icons.privacy_tip_sharp,Icons.arrow_forward_ios_outlined) .

