Closure Task

About Task :

This task being the **10th task** marks the completion of the training period. The interns who complete the task within the deadline **(Tuesday, 14th July 2020 11:59pm)**, can continue with the internship and qualify to get the AOL Coding Internship Certificate, while the rest are free to explore other internship opportunities.

Task Details :

1. The application will have 4 pages.
   a. Login_Page
   b. Register_Page
   c. Profile_Page
   d. EditProfile_Page
   e. ResetPassword_Page
   f. Widget_ page

2. After Completing this task, the interns have to create their own repository and push this project in their respective repository.

   a. Login_Page:

It shall take data (email, password) and have 3 buttons:
   1. Login:
       a. Authenticate the entered email and password and take to Profile_Page Once logged in his details will be saved in shared preferences (So next time when the app opens the user need not login again) .

           If user enters wrong email or password there should be a SnackBar saying "Invalid Username and Password"

   2. NewUser:
       a. Take the user to Register_Page

   3. ForgetPassword:
       a. Take user to ResetPassword_Page

   4. Google Login:

a. Add a button to SignInWithGoogle, upon clicking which the user shall get options to Login from various accounts. Once logged in his details will be saved in shared preferences and will be passed in to the Profile_Page

b. Register_Page

Here users can register and it will have 2 fields of email and password. On this page upon clicking the Register button a new user is created in firebase auth, and the user comes back to the Login_page.

c. Profile_Page:

On successful login the second page is navigated.It should show details on the profile page(Name,Email,Age).On the first time only email will be visible that is fetched from firebase and other name and age will show "your name","your age"

It will have 3 buttons:
1. Edit Profile:
    a. EditProfile_Page opens.
2. Logout
    a. Only when this Logout button is pressed the user's previous data is cleared and he shall be taken back to login page, User should log out of the account, such that next time he opens the app, he again gets the options of Google accounts to login when button SignInWithGoogle is pressed

3. Widgets
    The widget_page will open:

d. EditProfile_Page

The paeg will have 2 text fields name and age and a Save Details button. When this button is pressed name and age will be validated and updated in firebase

A snackbar will pop up showing details saved and the user will go back to the profile page. Where newly added data should be visible.

e. ResetPassword_Page

On the first page when ForgetPassword is clicked the 4th page opens where the user can put an email address and press the Reset button to send a reset password email. (Email sending functionality is provided by firebase).

f. Widget_ page

1. It shall have a Home page looking like the same as shown in figure 1. In a scrollview or listview you have to make Containers in which there should be a Gesture detector .All the containers should be in Expanded widget and every alternate container should be double the size. Each container will represent a specific Widget.

2. On tapping the Gesture Detector it should take you to a different page where there is information about that widget and an example of it.

    Example : If there is a Rich text widget,it shall have some information about the widget and then u have to show an example as I showed during the webinar. (Refer figure 2 for the same).

    List of Widgets= No. Of containers = no. Of pages = 11:
    1.Alert Dialog
    2.Rich Text
    3.Selectable Text
    4.Flexible
    5.Spacer
    6.Divider
    7.Ignore Pointer
    8.Colour Filtered
    9.ToolTip
    10.Aspect Ratio
    11.Sized Box

Task Helpful Links :

Firebase Realtime database --
https://medium.com/47billion/how-to-use-firebase-with-flutter-e4a47a7470ce

Sign In With Google --
https://medium.com/flutter-community/authenticate-with-a-gmail-account-in-your-flutter-apps-using-firebase-authentication-9cbf95796157

Navigation --
https://flutter.dev/docs/cookbook/navigation/navigation-basics

Shared Preferences --

https://medium.com/@suragch/saving-and-reading-data-in-flutter-with-sharedpreferences-bb4238d3105

Firebase connect --
https://firebase.google.com/docs/flutter/setup?platform=android

Expanded Class --
https://api.flutter.dev/flutter/widgets/Expanded-class.html

Task Instructions :

Upload (Release APK, App Screenshot, GitHub ScreenShot after pushing the code) in the following report:

https://forms.gle/QvkRa1GchcYM64PaA

Task Deadline :

Tuesday, 14th July 2020
11:59pm

-- All the best --