Exp-8

Main.dart

```dart
import 'package:blogapp/screens/option_screen.dart';
import 'package:blogapp/screens/splash_screen.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';

import 'firebase_options.dart';

void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
  );
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.indigo,
      ),
      home: SplashScreen(),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});
  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      ),
      body: Center(
      ),
    );
  }
}
```

splashscreen.dart

```dart
import 'dart:async';
```

```dart
import 'package:blogapp/screens/home_screen.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';

import 'option_screen.dart';

class SplashScreen extends StatefulWidget {
  const SplashScreen({Key? key}) : super(key: key);

  @override
  State<SplashScreen> createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen> {

  FirebaseAuth auth = FirebaseAuth.instance;
  @override
  void initState(){
    super.initState();
    final user = auth.currentUser;
    if(user != null){
      Timer(Duration(seconds: 3),()=> Navigator.push(context,
MaterialPageRoute(builder: (context)=> HomeScreen())));
    }else{
      Timer(Duration(seconds: 7),()=> Navigator.push(context,
MaterialPageRoute(builder: (context)=> OptionScreen())));
    }
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        crossAxisAlignment: CrossAxisAlignment.center,

        children: [
          Image(
              image: AssetImage('assets/img/logo.jpg')
          )
        ],
      ),
    );
  }
}
```

optionscreen.dart

```dart
import 'package:blogapp/components/round_button.dart';
import 'package:blogapp/screens/login.dart';
import 'package:blogapp/screens/signin.dart';
import 'package:flutter/material.dart';

class OptionScreen extends StatefulWidget {
  const OptionScreen({Key? key}) : super(key: key);

  @override
  State<OptionScreen> createState() => _OptionScreenState();
}

class _OptionScreenState extends State<OptionScreen> {
```

```dart
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(
        child: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 20),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: [
              Image.asset('assets/img/profile.png', height: 300,),

              SizedBox(height: 30),

              RoundButton(title: 'Login', onPress: (){
                Navigator.push(context, MaterialPageRoute(builder: (context) =>
Login()));
              }),

              SizedBox(
                height: 30,
              ),

              RoundButton(title: 'Register', onPress: (){
                Navigator.push(context, MaterialPageRoute(builder: (context) =>
SignIn()));
              })
            ],
          ),
        ),
      ),
    );
  }
}
```

login.dart

```dart
import 'package:blogapp/screens/home_screen.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';
import 'package:fluttertoast/fluttertoast.dart';
import 'package:modal_progress_hud_nsn/modal_progress_hud_nsn.dart';

import '../components/round_button.dart';

class Login extends StatefulWidget {
  const Login({Key? key}) : super(key: key);

  @override
  State<Login> createState() => _LoginState();
}

class _LoginState extends State<Login> {
  bool showSpinner = false;
  FirebaseAuth _auth =FirebaseAuth.instance;

  TextEditingController emailController = TextEditingController();
  TextEditingController passwordController = TextEditingController();

  final _formKey = GlobalKey<FormState>();
  String email = "", password ="" ;
```

```dart
  @override
  Widget build(BuildContext context) {
    return ModalProgressHUD(
      inAsyncCall: showSpinner,
      child: Scaffold(
        appBar: AppBar(
          title: Text('Login'),
          centerTitle: true,
          automaticallyImplyLeading: false,
        ),
        body: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 15),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: [
              Text('Login Details', style: TextStyle(color: Colors.indigo,fontSize:
40, fontWeight: FontWeight.bold),),
              Padding(
                padding: const EdgeInsets.symmetric(vertical: 30),
                child: Form(
                  key: _formKey,
                  child: Column(
                    children: [
                      TextFormField(
                        controller: emailController,
                        keyboardType: TextInputType.emailAddress,
                        decoration: InputDecoration(
                          hintText: 'Email',
                          prefixIcon: Icon(Icons.email),
                          border: OutlineInputBorder(),
                          labelText: ('Email')
                        ),
                        onChanged: (String value){
                          email = value;
                        },
                        validator:(value){
                          return value!.isEmpty ? 'enter email' : null;
                        },
                      ),
                      Padding(
                        padding: const EdgeInsets.symmetric(vertical: 15),
                        child: TextFormField(
                          controller: passwordController,
                          keyboardType: TextInputType.emailAddress,
                          obscureText: true,
                          decoration: InputDecoration(
                            hintText: 'Password',
                            prefixIcon: Icon(Icons.lock),
                            border: OutlineInputBorder(),
                            labelText: ('Password')
                          ),
                          onChanged: (String value){
                            password = value;
                          },
                          validator:(value){
                            return value!.isEmpty ? 'enter password' : null;
                          },
                        ),
                      ),
                      Padding(
                        padding: const EdgeInsets.only(top: 10, bottom: 20),
```

```dart
                                    child: InkWell(
                                      onTap: (){
                                        Navigator.push(context, MaterialPageRoute(builder:
(context) => ForgotPasswordScreen()));
                                      },
                                      child: Align(
                                        alignment: Alignment.centerRight,
                                        child: Text('Forgot password')
                                      ),
                                    ),
                                  ),
                                RoundButton(title: 'Login', onPress: ()async{
                                  if(_formKey.currentState!.validate()){
                                    setState(() {
                                      showSpinner = true;
                                    });
                                    try{
                                      final user = await
_auth.signInWithEmailAndPassword(email: email.toString().trim(),
                                          password: password.toString().trim());
                                      if(user !=null){
                                        print('success');
                                        toastMessage('User successfully logged in');
                                        setState(() {
                                          showSpinner = false;
                                        });
                                        Navigator.push(context, MaterialPageRoute(builder:
(context) => HomeScreen()));
                                      }
                                    }catch(e){
                                      print(e.toString());
                                      toastMessage(e.toString());
                                      setState(() {
                                        showSpinner = false;
                                      });
                                    }
                                  }
                                })
                              ],
                            )),
                      )
                    ],
                  ),
                ),
              ),
            );
          }
          void toastMessage(String message){
            Fluttertoast.showToast(
                msg: message.toString(),
                toastLength: Toast.LENGTH_SHORT,
                gravity: ToastGravity.BOTTOM,
                timeInSecForIosWeb: 1,
                backgroundColor: Colors.white,
                textColor: Colors.black,
                fontSize: 16.0
            );
          }
}
```

SignIn

```dart
import 'package:blogapp/components/round_button.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';
import 'package:fluttertoast/fluttertoast.dart';
import 'package:modal_progress_hud_nsn/modal_progress_hud_nsn.dart';

class SignIn extends StatefulWidget {
  const SignIn({Key? key}) : super(key: key);

  @override
  State<SignIn> createState() => _SignInState();
}

class _SignInState extends State<SignIn> {
  bool showSpinner = false;
  FirebaseAuth _auth =FirebaseAuth.instance;

  TextEditingController emailController = TextEditingController();
  TextEditingController passwordController = TextEditingController();

  final _formKey = GlobalKey<FormState>();
  String email = "", password ="" ;

  @override
  Widget build(BuildContext context) {
    return ModalProgressHUD(
      inAsyncCall: showSpinner,
      child: Scaffold(
        appBar: AppBar(
          title: Text('Create Account'),
          centerTitle: true,
        ),
        body: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 15),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: [
              Text('Register', style: TextStyle(color: Colors.indigo,fontSize: 40,
fontWeight: FontWeight.bold),),
                Padding(
                  padding: const EdgeInsets.symmetric(vertical: 30),
                  child: Form(
                    key: _formKey,
                      child: Column(
                        children: [
                          TextFormField(
                            controller: emailController,
                            keyboardType: TextInputType.emailAddress,
                            decoration: InputDecoration(
                                hintText: 'Email',
                                prefixIcon: Icon(Icons.email),
                                border: OutlineInputBorder(),
                                labelText: ('Email')
                            ),
                            onChanged: (String value){
                              email = value;
                            },
                            validator:(value){
                              return value!.isEmpty ? 'enter email' : null;
                            },
```

```dart
                                   ),
                                 Padding(
                                   padding: const EdgeInsets.symmetric(vertical: 15),
                                   child: TextFormField(
                                     controller: passwordController,
                                     keyboardType: TextInputType.emailAddress,
                                     obscureText: true,
                                     decoration: InputDecoration(
                                         hintText: 'Password',
                                         prefixIcon: Icon(Icons.lock),
                                         border: OutlineInputBorder(),
                                         labelText: ('Password')
                                     ),
                                     onChanged: (String value){
                                       password = value;
                                     },
                                     validator:(value){
                                       return value!.isEmpty ? 'enter password' : null;
                                     },
                                   ),
                                 ),
                                 RoundButton(title: 'Register', onPress: ()async{
                                   if(_formKey.currentState!.validate()){
                                     setState(() {
                                       showSpinner = true;
                                     });
                                     try{
                                       final user = await
_auth.createUserWithEmailAndPassword(email: email.toString().trim(),
                                           password: password.toString().trim());
                                       if(user !=null){
                                         print('success');
                                         toastMessage('User successfully created');
                                         setState(() {
                                           showSpinner = false;
                                         });
                                       }
                                     }catch(e){
                                       print(e.toString());
                                       toastMessage(e.toString());
                                       setState(() {
                                         showSpinner = false;
                                       });
                                     }
                                   }
                                 })
                               ],
                             )),
                         )
                       ],
                     ),
                   ),
                 ),
               );
             }
             void toastMessage(String message){
               Fluttertoast.showToast(
                   msg: message.toString(),
                   toastLength: Toast.LENGTH_SHORT,
                   gravity: ToastGravity.BOTTOM,
                   timeInSecForIosWeb: 1,
                   backgroundColor: Colors.red,
                   textColor: Colors.white,
```

```
      fontSize: 16.0
    );
  }
}
```

make components folder to create rounded button

so no need to right code for button again and again.

```
import 'package:flutter/material.dart';

class RoundButton extends StatelessWidget {
  final String title;
  final VoidCallback onPress;
  RoundButton({required this.title, required this.onPress});

  @override
  Widget build(BuildContext context) {
    return Material(
      borderRadius: BorderRadius.circular(10),
      clipBehavior: Clip.antiAlias,
      child: MaterialButton(
        padding: EdgeInsets.all(20),
        height: 50,
        color: Colors.indigo,
        minWidth: double.infinity,
        child: Text(title, style: TextStyle(color: Colors.white, fontSize: 22,)),
        onPressed: onPress,
      ),
    );
  }
}
```

home.dart

create new file and name it as home.dart

and save it.