WEEKLY REPORT

In this report students require to mention the work has been done during the week and planning for the next week. (Please fill individual report for each week)

Student ID: 19DCS035	Student Name: Gami Bhavin Harish
From Date: 30/05/2022	To Date: 03/06/2022
Semester: 6th	Internship ID:

Work done in last week:

1. User creation and authentication through email and phone number using OTP through firebase and the building landing page of the app.

Code:

OTPVerification.dart

```dart
import 'package:annonymus_app/Screens/HomeScreen.dart';
import 'package:annonymus_app/helper%20class/constants.dart';
import 'package:flutter/material.dart';
import 'package:flutter/src/foundation/key.dart';
import 'package:flutter/src/widgets/framework.dart';
import 'package:pin_code_fields/pin_code_fields.dart';
import 'package:firebase_auth/firebase_auth.dart';

class OtpVerification extends StatefulWidget {
  String? phone;
  OtpVerification(this.phone);

  @override
  State<OtpVerification> createState() => _OtpVerificationState();
}

class _OtpVerificationState extends State<OtpVerification> {
  String? currentText;
  String? verifyOTP;
  String? otp;
  @override
```

```dart
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        foregroundColor: Colors.white,
        title: Text('OTP Verification'),
        backgroundColor: Color.fromARGB(255, 32, 31, 31),
      ),
      backgroundColor: Color.fromARGB(255, 237, 234, 219),
      body: Container(
        margin: EdgeInsets.all(5.0),
        padding: EdgeInsets.all(5.0),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'Verify ${widget.phone}',
              style: TextStyle(
                fontWeight: FontWeight.w500,
                fontSize: 20.0,
                color: Color.fromARGB(255, 32, 31, 31),
              ),
            ),
            SizedBox(
              height: 10.0,
            ),
            PinCodeTextField(
              animationCurve: Curves.easeIn,
              pinTheme: PinTheme(
                selectedColor: Color.fromARGB(255, 101, 106, 108),
                selectedFillColor: Colors.white,
                inactiveFillColor: blck,
                activeFillColor: Colors.white,
                inactiveColor: blck,
                activeColor: Color.fromARGB(255, 101, 106, 108),
              ),
              enableActiveFill: true,
              appContext: context,
              length: 6,
              onChanged: (value) {
                debugPrint(value);
                setState(() {
                  currentText = value;
                });
              },
              onCompleted: (v) {
                verifyOTP = v;
                debugPrint("Completed");
              },
```

```dart
              ),
              FlatButton(
                onPressed: () async {
                  try {
                    await FirebaseAuth.instance
                        .signInWithCredential(
                          PhoneAuthProvider.credential(
                            verificationId: otp.toString(),
                            smsCode: verifyOTP.toString(),
                          ),
                        )
                        .then(
                          (value) => Navigator.push(
                            context,
                            MaterialPageRoute(
                              builder: (context) => HomeScreen(),
                            ),
                          ),
                        );
                  } catch (e) {
                    print(e);
                  }
                },
                child: Text(
                  'Verify & Login',
                  style: TextStyle(
                      color: Color.fromARGB(255, 32, 31, 31),
                      fontSize: 18.0,
                      fontWeight: FontWeight.w600),
                ),
              ),
            ],
          ),
        ),
      );
    }

    verifyPhone() async {
      await FirebaseAuth.instance.verifyPhoneNumber(
        phoneNumber: widget.phone.toString(),
        verificationCompleted: (PhoneAuthCredential credential) async {
          await FirebaseAuth.instance.signInWithCredential(credential).then(
                (value) async => Navigator.push(
                  context,
                  MaterialPageRoute(
                    builder: (context) => HomeScreen(),
                  ),
                ),
```

```
        );
      },
      verificationFailed: (FirebaseAuthException e) {
        print(e);
      },
      codeSent: (String VerificationID, int? resendToken) {
        setState(
          () {
            otp = VerificationID;
          },
        );
      },
      codeAutoRetrievalTimeout: (String VerificationID) {
        setState(
          () {
            otp = VerificationID;
          },
        );
      },
      timeout: Duration(seconds: 60),
    );
  }

  @override
  void initState() {
    verifyPhone();
    super.initState();
  }
}
}
```

Firebase Authentication.dart

```
import 'package:annonymus_app/Screens/HomeScreen.dart';
import 'package:annonymus_app/Screens/SignUp.dart';
import 'package:annonymus_app/helper%20class/constants.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';

class FirebaseAuthentication {
  void AuthenticateUser(String email, String password, context) async {
    try {
      await FirebaseAuth.instance
          .signInWithEmailAndPassword(email: email, password: password)
          .then((value) {
        Navigator.of(context)
            .push(MaterialPageRoute(builder: (context) => HomeScreen()));
      });
```

```dart
      } catch (e) {
        loginFail = true;
        if (loginFail == true) {
          errorMsg = 'Invalid Credntials';
        }
      }
    }

    void CreateUser(String email, String password, context) async {
      await FirebaseAuth.instance
          .createUserWithEmailAndPassword(email: email, password: password)
          .then((value) => Navigator.push(
              context, MaterialPageRoute(builder: (context) => SignUpScreen())))
          .onError((error, stackTrace) {
        print('Error ${error.toString()}');
      });
    }
}
```

HomeScreen.dart

```dart
import 'dart:async';
import 'package:google_fonts/google_fonts.dart';
import 'package:annonymus_app/helper%20class/constants.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';
import 'package:url_launcher/url_launcher.dart';
import 'package:url_launcher/url_launcher_string.dart';

import '../helper class/AppDrawer.dart';
import 'SignIn.dart';
import 'package:annonymus_app/helper%20class/InternetData.dart';

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Color.fromARGB(255, 39, 39, 39),
      body: HomeScreen(),
    );
  }
}

class HomeScreen extends StatefulWidget {
  @override
  State<HomeScreen> createState() => _HomeScreenState();
}
```

```dart
class _HomeScreenState extends State<HomeScreen> {
  Color clr = Color.fromARGB(255, 52, 149, 40);
  //Color clrRed = Colors.red;
  var price;
  var price_change;
  var change_percent;
  dynamic responseData;
  InternetData id = new InternetData();

  @override
  void initState() {
    getData();
    Timer.periodic(Duration(seconds: 10), (timer) => getData());

    super.initState();
  }

  void getData() async {
    responseData = await id.fetchData();
    setState(() {
      price = responseData['data']['priceUsd'];
      print(price);
      price = double.parse(price).round();

      change_percent = responseData['data']['changePercent24Hr'];
      change_percent = double.parse(change_percent).roundToDouble();
      price_change = price * change_percent! / 100;
      price_change = price_change.roundToDouble();
      if (change_percent! < 0) {
        clr = Color.fromARGB(255, 200, 13, 7);
      }
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      drawer: NavDrawer(),
      backgroundColor: Color.fromARGB(255, 32, 31, 31),
      body: SafeArea(
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          children: <Widget>[
            Expanded(
              child: Container(
                color: Color.fromARGB(255, 32, 31, 31),
                child: Column(
```

```dart
          children: <Widget>[
            Row(
                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                children: <Widget>[
                  FlatButton(
                    onPressed: () {},
                    child: Icon(
                      Icons.menu_rounded,
                      size: 35.0,
                      color: Colors.white,
                    ),
                  ),
                  SizedBox(
                    width: 200.0,
                  ),
                  ElevatedButton(
                    child: Text('Log Out'),
                    onPressed: () {
                      FirebaseAuth.instance.signOut().then((value) {
                        print('Signed Out');
                        Navigator.push(
                            context,
                            MaterialPageRoute(
                                builder: (context) => SignInScreen()));
                      });
                    },
                  ),
                ]),
            Text(
              'Bitcoin Tracker',
              style: GoogleFonts.sourceSansPro(
                fontWeight: FontWeight.normal,
                color: ylw,
                fontSize: 20.0,
              ),
            ),
            SizedBox(
              height: 20.0,
            ),
            Container(
              padding: EdgeInsets.all(15.0),
              width: 200.0,
              height: 190.0,
              decoration: BoxDecoration(
                  color: Color.fromARGB(255, 237, 234, 219),
                  borderRadius: BorderRadius.circular(10.0),
                  boxShadow: [
                    BoxShadow(
```

```dart
                    color: Color.fromARGB(255, 128, 132, 134),
                    blurRadius: 10,
                    spreadRadius: 1,
                    offset: Offset(4, 4),
                  )
                ]),
            child: Column(
              children: <Widget>[
                CircleAvatar(
                  radius: 35,
                  backgroundImage: AssetImage('assets/bitcoin.jpg'),
                ),
                Text(
                  '\$ $price',
                  style: TextStyle(
                      color: clr,
                      fontWeight: FontWeight.bold,
                      fontSize: 25.0),
                ),
                Text(
                  '$price_change',
                  style:
                      TextStyle(color: Colors.black, fontSize: 20.0),
                ),
                Text(
                  '$change_percent%',
                  style: TextStyle(color: clr, fontSize: 18.0),
                ),
              ],
            ),
          ),
        ),
      ],
    ),
  ),
),
Expanded(
  child: Container(
    decoration: BoxDecoration(
      color: Color.fromARGB(255, 237, 234, 219),
      borderRadius: BorderRadius.only(
        topRight: Radius.circular(50.0),
        topLeft: Radius.circular(50.0),
      ),
    ),
    child: Column(
      children: <Widget>[
        SizedBox(
          height: 15.0,
```
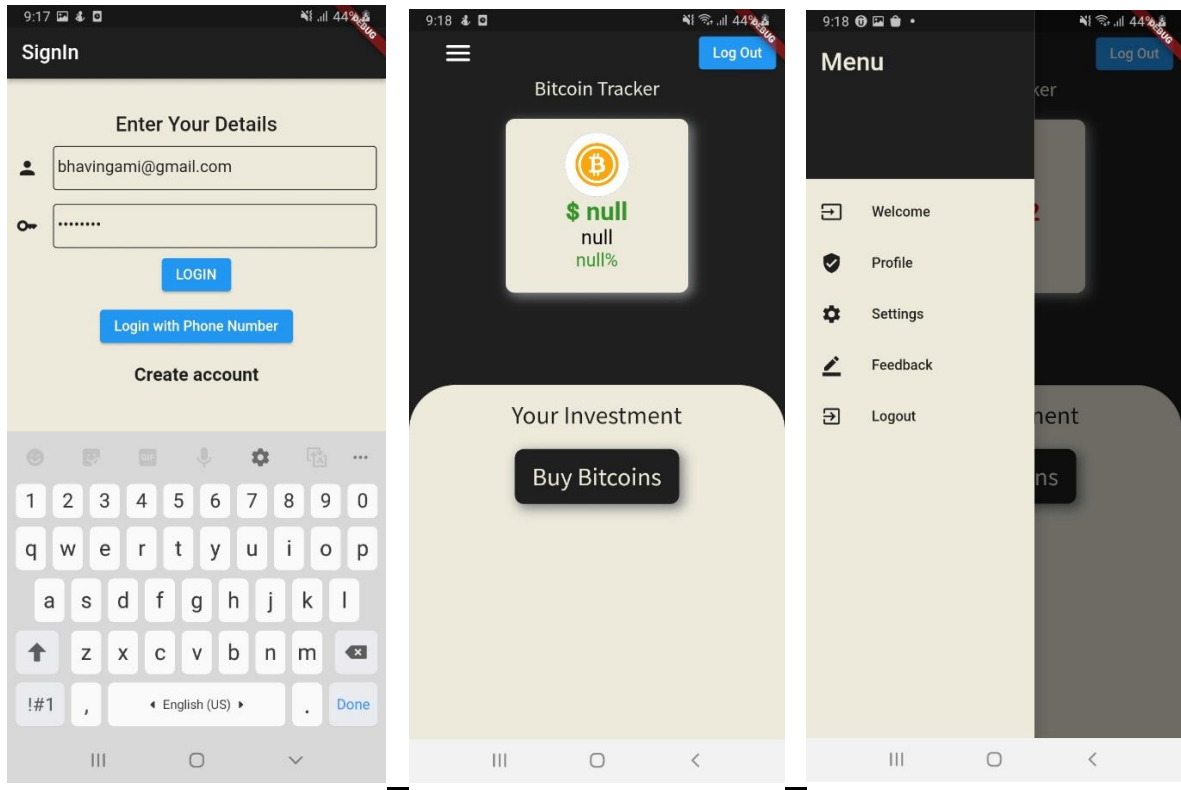
```dart
          ),
          Text(
            'Your Investment',
            style: GoogleFonts.sourceSansPro(
              fontWeight: FontWeight.normal,
              color: blck,
              fontSize: 25.0,
            ),
          ),
          SizedBox(
            height: 20.0,
          ),
          Container(
            width: 180.0,
            height: 60.0,
            alignment: Alignment.center,
            decoration: BoxDecoration(
                color: blck,
                borderRadius: BorderRadius.circular(10.0),
                boxShadow: [
                  BoxShadow(
                    color: Color.fromARGB(255, 128, 132, 134),
                    blurRadius: 10,
                    spreadRadius: 1,
                    offset: Offset(4, 4),
                  )
                ]),
            child: FlatButton(
              onPressed: () async {
                if (await canLaunchUrlString(bitcoin)) {
                  await launchUrlString(bitcoin);
                } else {
                  throw 'Could not launch $bitcoin';
                }
              },
              child: Text(
                'Buy Bitcoins',
                style: GoogleFonts.sourceSansPro(
                  fontWeight: FontWeight.normal,
                  color: ylw,
                  fontSize: 25.0,
                ),
              ),
            ),
          )
        ],
      ),
    ),
```
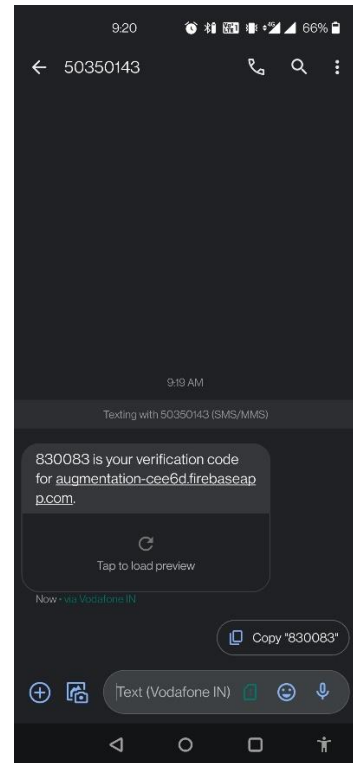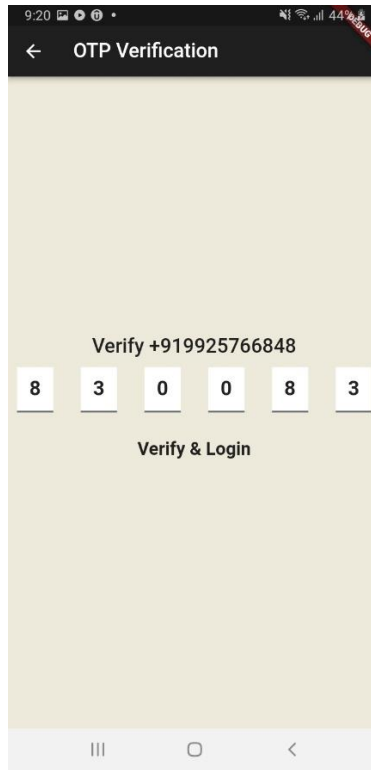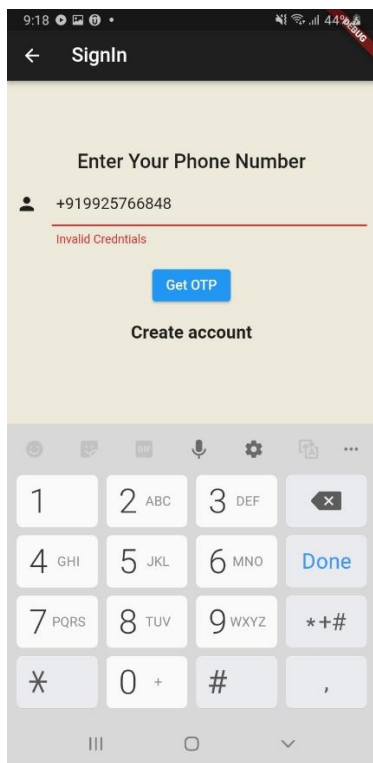
```
                )
            ],
          ),
        ),
      );
    }
}
```

Screenshots:

Plans for next week:

1. Fetching data through Bitcoin API and displaying the same.

References:

- https://firebase.google.com/docs/guides

- https://medium.com/firebase-developers/dive-into-firebase-auth-on-flutter-email-and-link-sign-in-e51603eb08f8

Signature of External Supervisor **Signature of Internal Supervisor**