



## 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)*

<b>Student ID: 19DCS035</b>	<b>Student Name: Gami Bhavin Harish</b>
<b>From Date: 18/05/2022</b>	<b>To Date: 29/5/2022</b>
<b>Semester: 6th</b>	<b>Internship ID:</b>

### Work done last week:

1. Setting up Flutter to work on and basics of flutter and dart in app development.
2. Learned about various flutter widgets and created a small application using flutter widgets and how to customize them.
  - **Widgets learned:** Scaffold, Container, Rows, Columns, Icon, Avatar, Text, Card, etc.

### Main.dart code:

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

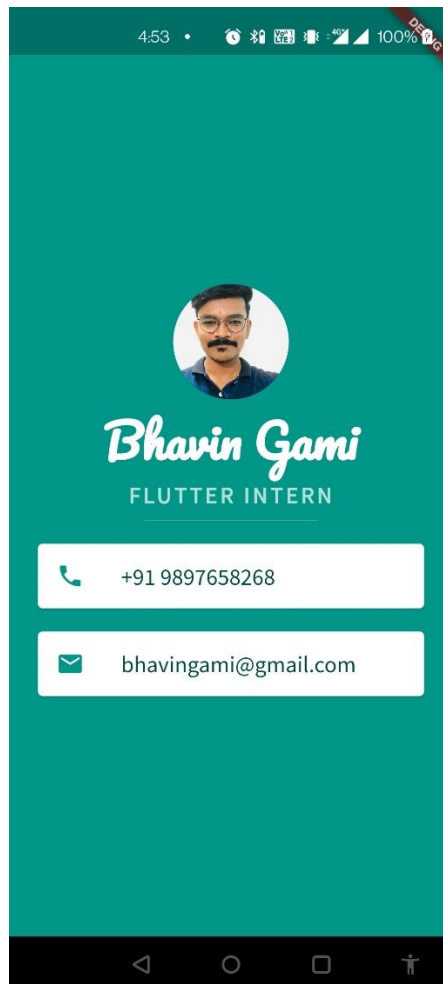
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.teal,
        body: SafeArea(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              CircleAvatar(
                radius: 50.0,
                backgroundImage: AssetImage('images/Bhavin.jpg'),
              ),
            ],
          ),
        ),
      ),
    );
  }
}
```

```
Text(
  'Bhavin Gami',
  style: TextStyle(
    fontFamily: 'Pacifico',
    fontSize: 40.0,
    color: Colors.white,
    fontWeight: FontWeight.bold,
  ),
),
Text(
  'FLUTTER INTERN',
  style: TextStyle(
    fontFamily: 'Source Sans Pro',
    color: Colors.teal.shade100,
    fontSize: 20.0,
    letterSpacing: 2.5,
    fontWeight: FontWeight.bold,
  ),
),
SizedBox(
  height: 20.0,
  width: 150.0,
  child: Divider(
    color: Colors.teal.shade100,
  ),
),
Card(
  margin: EdgeInsets.symmetric(vertical: 10.0, horizontal: 25.0),
  child: ListTile(
    leading: Icon(
      Icons.phone,
      color: Colors.teal,
    ),
    title: Text(
      '+91 9897658268',
      style: TextStyle(
        color: Colors.teal.shade900,
        fontFamily: 'Source Sans Pro',
        fontSize: 20.0,
      ),
    ),
  ),
),
Card(
  margin: EdgeInsets.symmetric(vertical: 10.0, horizontal: 25.0),
  child: ListTile(
    leading: Icon(
      Icons.email,
      color: Colors.teal,
```

```
    ),  
    title: Text(  
      'bhavingami@gmail.com',  
      style: TextStyle(  
        fontSize: 20.0,  
        color: Colors.teal.shade900,  
        fontFamily: 'Source Sans Pro'),  
    ),  
  ),  
),  
),  
),  
);  
}  
}
```

## Screenshots:



3. Learned about stateless widgets, stateful widgets, dart packages, and using dart programming for app development. Also implemented this learning by building a small Dice app.

- The dice number changes randomly when tapped on the dice.

### Main.dart Code:

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

void main() {
  return runApp(
    MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.red,
        appBar: AppBar(
          title: Text('Dicee'),
          backgroundColor: Colors.red,
        ),
        body: DicePage(),
      ),
    ),
  );
}

class DicePage extends StatefulWidget {
  @override
  State<DicePage> createState() => _DicePageState();
}

class _DicePageState extends State<DicePage> {
  int leftDiceNo = 1;
  int rightDiceNo = 1;
  void changeDice() {
    setState(() {
      leftDiceNo = Random().nextInt(6) + 1;
      rightDiceNo = Random().nextInt(6) + 1;
    });
  }

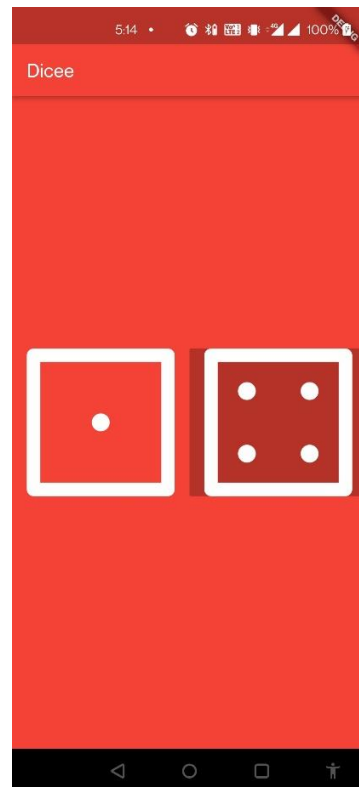
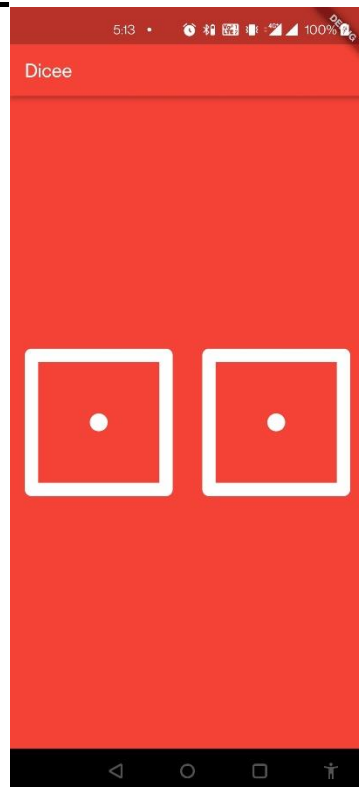
  @override
  Widget build(BuildContext context) {
    return Container(
      child: Center(
        child: Row(
          children: <Widget>[
            Expanded(
```

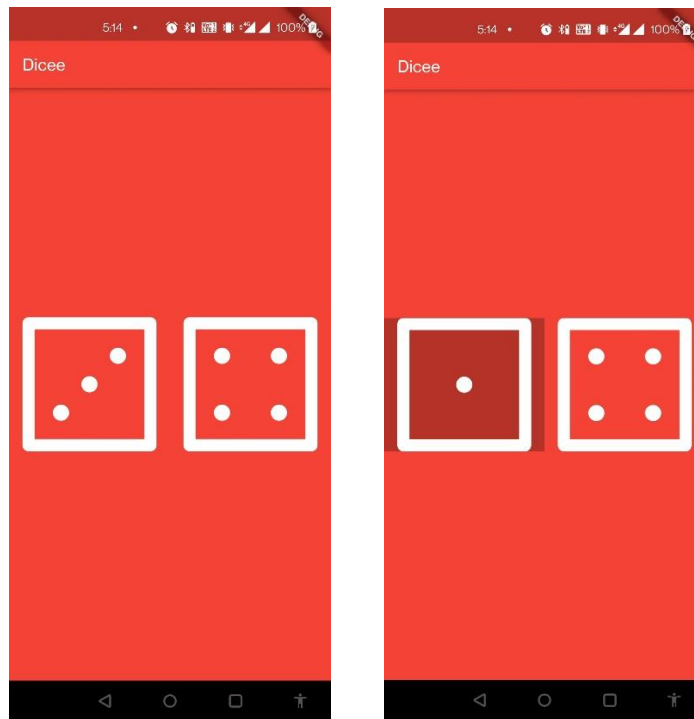
```

        child: FlatButton(
          onPressed: () {
            changeDice();
          },
          child: Image.asset('images/dice$leftDiceNo.png'),
        ),
      ),
      Expanded(
        child: FlatButton(
          onPressed: () {
            changeDice();
          },
          child: Image.asset('images/dice$rightDiceNo.png'),
        ),
      ),
    ],
  ),
),
);
}
}

```

## Screenshots:





4. Made a login, signup page, and learned to integrate google firebase for user creation and authentication.

### SignIn.dart

```
import 'package:firebase_auth/firebase_auth.dart';

import 'package:flutter/material.dart';

import 'HomeScreen.dart';
import 'SignUp.dart';

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

  @override
  State<SignInScreen> createState() => _SignInScreenState();
}

class _SignInScreenState extends State<SignInScreen> {
  bool loginFail = false;
  String? errorMsg;
  final emailController = new TextEditingController();
  final passwordController = new TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```
appBar: AppBar(  
  foregroundColor: Colors.white,  
  title: Text('SignIn'),  
  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(  
        'Enter Your Details',  
        style: TextStyle(  
          fontWeight: FontWeight.w500,  
          fontSize: 20.0,  
          color: Color.fromARGB(255, 32, 31, 31),  
        ),  
      ),  
      SizedBox(  
        height: 10.0,  
      ),  
      TextFormField(  
        enabled: true,  
        cursorColor: Color.fromARGB(255, 32, 31, 31),  
        controller: emailController,  
        decoration: InputDecoration(  
          hintText: 'Email',  
          errorText: errorMsg,  
          hintStyle: TextStyle(  
            color: Color.fromARGB(255, 32, 31, 31),  
          ),  
          enabledBorder: OutlineInputBorder(  
            borderSide:  
              BorderSide(color: Color.fromARGB(255, 32, 31, 31))),  
          focusedBorder: OutlineInputBorder(  
            borderSide:  
              BorderSide(color: Color.fromARGB(255, 32, 31, 31))),  
          contentPadding: EdgeInsets.all(5.0),  
          icon: Icon(  
            Icons.person,  
            color: Color.fromARGB(255, 32, 31, 31),  
          ),  
        ),  
      ),  
      SizedBox(  
        height: 15.0,
```

```

    ),
    TextFormField(
      cursorColor: Color.fromARGB(255, 32, 31, 31),
      controller: passwordController,
      obscureText: true,
      decoration: InputDecoration(
        errorText: errorMsg,
        hintStyle: TextStyle(color: Color.fromARGB(255, 32, 31, 31)),
        contentPadding: EdgeInsets.all(5.0),
        enabled: true,
        hintText: 'Password',
        enabledBorder: OutlineInputBorder(
          borderSide:
            BorderSide(color: Color.fromARGB(255, 32, 31, 31))),
        focusedBorder: OutlineInputBorder(
          borderSide:
            BorderSide(color: Color.fromARGB(255, 32, 31, 31))),
        icon: Icon(
          Icons.key,
          color: Color.fromARGB(255, 32, 31, 31),
        ),
      ),
    ),
    ),
    SizedBox(
      height: 5.0,
    ),
    ElevatedButton(
      onPressed: () async {
        try {
          await FirebaseAuth.instance
            .signInWithEmailAndPassword(
              email: emailController.text,
              password: passwordController.text)
            .then((value) {
              Navigator.push(
                context,
                MaterialPageRoute(
                  builder: ((context) => HomeScreen())));
            });
        } catch (e) {
          setState(() {
            loginFail = true;
            errorMsg = 'Invalid Credentials';
          });
          /*Navigator.push(
            context,
            MaterialPageRoute(
              builder: ((context) => SignInScreen()),

```



```

        ),
      );*/
    }
  },
  child: Text('LOGIN'),
),
 SizedBox(
  height: 5.0,
),
 FlatButton(
  onPressed: () {
    Navigator.push(context,
      MaterialPageRoute(builder: (context) => SignUpScreen()));
  },
  child: Text(
    'Create account',
    style: TextStyle(
      color: Color.fromARGB(255, 32, 31, 31),
      fontSize: 18.0,
      fontWeight: FontWeight.w600),
  ),
),
],
),
));
}
}

```

## SignUp.dart

```

import 'package:firebase_auth/firebase_auth.dart';

import 'package:flutter/material.dart';

import 'HomeScreen.dart';

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

  @override
  State<SignUpScreen> createState() => _SignUpScreenState();
}

class _SignUpScreenState extends State<SignUpScreen> {
  //String? password;
  final emailController = new TextEditingController();
  final passwordController = new TextEditingController();

```

```

//String? email;
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('SignUp'),
      backgroundColor: Color.fromARGB(255, 32, 31, 31),
    ),
    extendBodyBehindAppBar: true,
    backgroundColor: Color.fromARGB(255, 237, 234, 219),
    body: SafeArea(
      child: Container(
        margin: EdgeInsets.all(5.0),
        child: Column(
          children: <Widget>[
            Text(
              'Enter Your Details',
              style: TextStyle(fontSize: 18.0, fontWeight: FontWeight.w500),
            ),
            SizedBox(
              height: 8.0,
            ),
            TextFormField(
              enabled: true,
              cursorColor: Color.fromARGB(255, 32, 31, 31),
              decoration: const InputDecoration(
                hintText: 'Full Name',
                hintStyle: TextStyle(
                  color: Color.fromARGB(255, 32, 31, 31),
                ),
                enabledBorder: OutlineInputBorder(
                  borderSide:
                    BorderSide(color: Color.fromARGB(255, 32, 31, 31))),
                contentPadding: EdgeInsets.all(5.0),
                icon: Icon(
                  Icons.person,
                  color: Color.fromARGB(255, 32, 31, 31),
                ),
              ),
            ),
            SizedBox(
              height: 10.0,
            ),
            TextFormField(
              enabled: true,
              cursorColor: Color.fromARGB(255, 32, 31, 31),
              controller: emailController,
              decoration: const InputDecoration(

```

```
hintText: 'Email',  
hintStyle: TextStyle(  
    color: Color.fromARGB(255, 32, 31, 31),  
),  
enabledBorder: OutlineInputBorder(  
    borderSide:  
        BorderSide(color: Color.fromARGB(255, 32, 31, 31))),  
contentPadding: EdgeInsets.all(5.0),  
icon: Icon(  
    Icons.mail,  
    color: Color.fromARGB(255, 32, 31, 31),  
),  
),  
),  
),  
),  
),  
  
SizedBox(  
    height: 10.0,  
),  
  
TextFormField(  
    enabled: true,  
    cursorColor: Color.fromARGB(255, 32, 31, 31),  
    decoration: const InputDecoration(  
        hintText: 'Birthdate DD/MM/YY',  
        hintStyle: TextStyle(  
            color: Color.fromARGB(255, 32, 31, 31),  
        ),  
        enabledBorder: OutlineInputBorder(  
            borderSide:  
                BorderSide(color: Color.fromARGB(255, 32, 31, 31))),  
        contentPadding: EdgeInsets.all(5.0),  
        icon: Icon(  
            Icons.calendar_month,  
            color: Color.fromARGB(255, 32, 31, 31),  
        ),  
    ),  
),  
),  
),  
  
SizedBox(  
    height: 10.0,  
),  
  
TextFormField(  
    enabled: true,  
    cursorColor: Color.fromARGB(255, 32, 31, 31),  
    controller: passwordController,  
    obscureText: true,  
    decoration: const InputDecoration(  
        hintText: 'Password',  
        hintStyle: TextStyle(  
            color: Color.fromARGB(255, 32, 31, 31),  
        ),
```

```

        enabledBorder: OutlineInputBorder(
          borderSide:
            BorderSide(color: Color.fromARGB(255, 32, 31, 31))),
        contentPadding: EdgeInsets.all(5.0),
        icon: Icon(
          Icons.key,
          color: Color.fromARGB(255, 32, 31, 31),
        ),
      ),
    ),
    SizedBox(
      height: 10.0,
    ),
    TextFormField(
      enabled: true,
      cursorColor: Color.fromARGB(255, 32, 31, 31),
      obscureText: true,
      decoration: const InputDecoration(
        hintText: 'Confirm Password',
        hintStyle: TextStyle(
          color: Color.fromARGB(255, 32, 31, 31),
        ),
        enabledBorder: OutlineInputBorder(
          borderSide:
            BorderSide(color: Color.fromARGB(255, 32, 31, 31))),
        contentPadding: EdgeInsets.all(5.0),
        icon: Icon(
          Icons.key,
          color: Color.fromARGB(255, 32, 31, 31),
        ),
      ),
    ),
    SizedBox(
      height: 5.0,
    ),
    ElevatedButton(
      onPressed: () {
        FirebaseAuth.instance
          .createUserWithEmailAndPassword(
            email: emailController.text,
            password: passwordController.text,
          )
          .then((value) {
            print('Created New Account');
            Navigator.push(context,
              MaterialPageRoute(builder: (context) => HomeScreen()));
          }).onError((error, stackTrace) {
            print('Error ${error.toString()}');

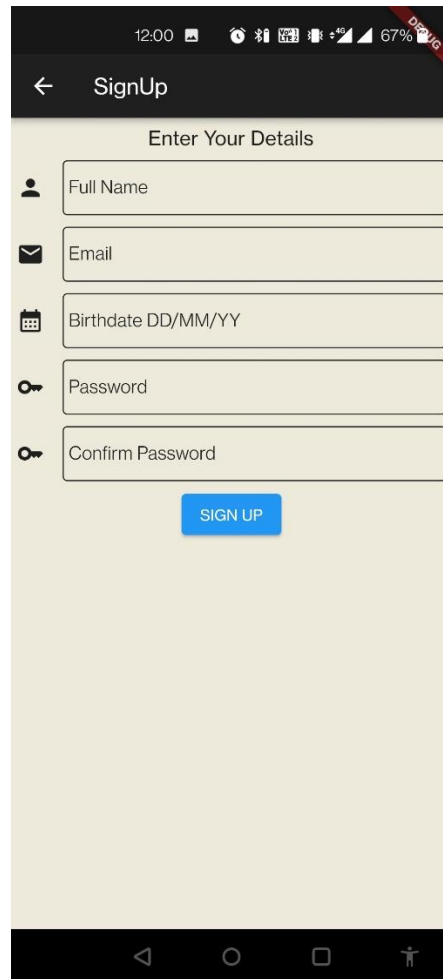
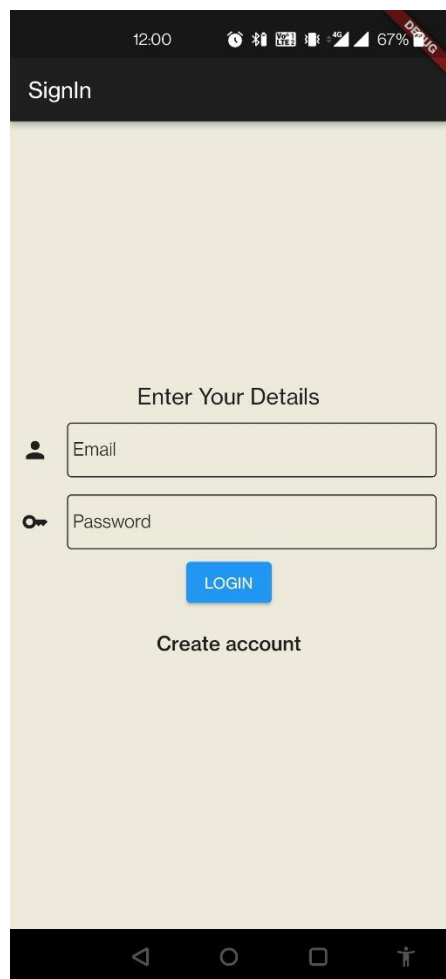
```

```

        ));
    },
    child: Text('SIGN UP'),
  ),
],
),
),
),
),
);
}
}
}

```

## Screenshots:



### **Plans for next week:**

1. Implementing user creation and authentication through firebase and making a home screen.
2. Fetching data through API and displaying the same.

### **References:**

1. <https://docs.flutter.dev/development/tools/vs-code>
2. <https://docs.flutter.dev/development/ui/widgets>
3. <https://docs.flutter.dev/development/packages-and-plugins/using-packages>
4. <https://docs.flutter.dev/development/data-and-backend/state-mgmt/intro>

**Signature of External Supervisor**

**Signature of Internal Supervisor**