Name: Murtaza Akil Mister

Roll No: CE071 **ID**: 20ITUOS088 **Batch**: A4 Lab: 11

GitHub link: https://github.com/MurtazaMister/CE071 SDP/blob/master/Lab11

Code Test - 1

```
//Lab :- 11
import 'package:flutter/material.dart';
import 'package:flutter_lab_11/pages/home.dart';
import 'package:flutter_lab_11/pages/choose_location.dart';
import 'package:flutter_lab_11/pages/loading.dart';
void main() => runApp(MaterialApp(
// home: Home(),
// instead of making home: property to make any page to initialize at
beginning...
// we can use following code ....
// initialRoute: '/home',
       initialRoute: '/',
        routes: {
          '/': (context) => Loading(),
          '/home': (context) => Home(),
          '/location': (context) => ChooseLocation(),
        }));
```

main.dart

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

class ChooseLocation extends StatefulWidget {
// const ChooseLocation({Key? key}) : super(key: key);
    @override
    State<ChooseLocation> createState() => _ChooseLocationState();
}

class _ChooseLocationState extends State<ChooseLocation> {
    int counter = 0;

    void getData() async {
    // below code is similar like to
    // simulate network request for a username
    // its just learning how flutter/dart response to Async
        String username = await Future.delayed(Duration(seconds: 4), () {
            return 'UNIVERSITY NAME : DDU';
        });
// print('in getData ...after future call....');
// the following code is depends on 1st one ..but what happened at here?
// suppose it is network simulation request to fetch out the bio-data of..
// user name that is received by 1st request....
```

```
String bio = await Future.delayed(Duration(seconds: 2),
 appBar: AppBar(
```

pages/choose_location.dart

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

class Home extends StatefulWidget {
    @override
    State<Home> createState() => _HomeState();
}

class _HomeState extends State<Home> {
    Map<dynamic, dynamic> data = {};

    @override
    Widget build(BuildContext context) {
```

```
return Scaffold(
   padding: const EdgeInsets.fromLTRB(0.0, 120.0, 0.0, 0.0),
         mainAxisAlignment: MainAxisAlignment.center,
          children: [
        SizedBox(
```

pages/home.dart

```
import 'package:flutter/material.dart';
import 'package:flutter_lab_11/services/world_time.dart';

class Loading extends StatefulWidget {
    @override
    State<Loading> createState() => _LoadingState();
}

class _LoadingState extends State<Loading> {
    String? time = 'LOADING.....';

    void setWorldTime() async {
        WordTime timeinstance =
```

```
WordTime(location: 'kolkata', flag: 'india.png', url:
'Asia/Kolkata');
    await timeinstance.getTime();
// print(timeinstance.time);
    setState(() {
        time = timeinstance.time;
      });
}

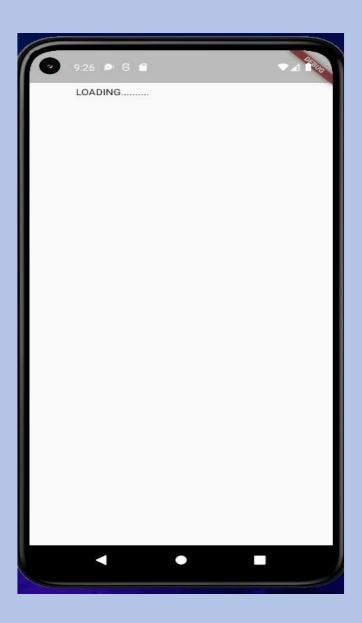
@override
void initState() {
        super.initState();
        setWorldTime();
}

@override
Widget build(BuildContext context) {
        return Scaffold(
            body: Padding(
            padding: EdgeInsets.all(60.0),
            child: Text(time.toString()),
        ));
}
```

pages/loading.dart

services/world_time.dart

Output-



To handle this TRY-CATCH blocks are needed:-

```
import 'package:http/http.dart';
import 'dart:convert';

class WordTime {
   String? location; // REAL LOCATION NAME FOR UI
   String? time; // the time in that location..
   String? flag; // flag images related to location country...do it your
   self
   String?
   url; // end point of static url...which will change every time when
   location will change
```

Changed code of - services/world_time.dart

Syncing files to device sdk gphone64 x86 64...

I/flutter (12266): Exception Caught: Invalid argument(s): No host specified in URI

Error from the RUN console...

Output -



Code Test - 2

```
class WordTime {
     get(Uri.parse('http://worldtimeapi.org/api/timezone/$url')); //
     String offsetMinutes = offset.substring(4, 6);
     time = currenttime.toString();
```

Updated page of world_time.dart

```
await timeinstance.getTime();
Navigator.pushReplacementNamed(context, '/home', arguments: {
    'location' : timeinstance.location,
    'flag' : timeinstance.flag,
    'time': timeinstance.time,
    });
}

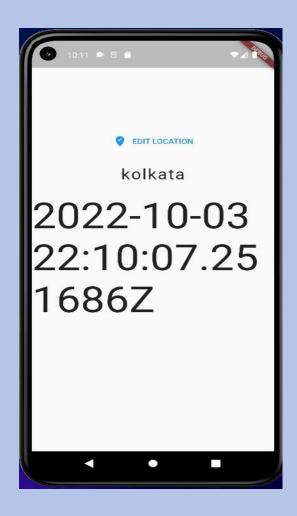
@override
void initState() {
    super.initState();
    setWorldTime();
}

@override
Widget build(BuildContext context) {
    return Scaffold(
        body: Padding(
        padding: EdgeInsets.all(50.0),
        child: Text("Loading..."),
    ));
}
```

Updated page of loading.dart

Updated page of home.dart

Output-



Code Test-3

```
class WordTime {
         get(Uri.parse(
         minutes: int.parse(offsetMinutes), hours:
```

Updated page of world_time.dart

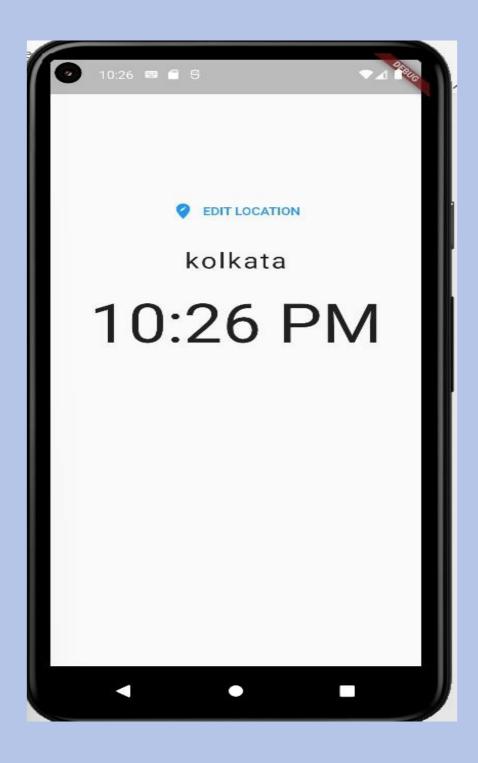
```
import 'package:flutter/material.dart';

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

```
return Padding(
 padding: const EdgeInsets.all(8.0),
     padding: const EdgeInsets.fromLTRB(0.0, 120.0, 0.0, 0.0),
             Navigator.pushNamed(context, '/location');
         SizedBox (height: 24.0),
         Row (
```

Updated page of home.dart

Output-



Code Test - 4

```
import 'package:flutter/material.dart';
import 'package:flutter_lab_11/services/world_time.dart';
import 'package:flutter_spinkit/flutter_spinkit.dart';
   State<Loading> createState() => LoadingState();
class _LoadingState extends State<Loading> {
  void setWorldTime() async {
                child: SpinKitFadingCube(
```

Updated page of loading.dart

Output-

