SDP

LAB-10

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Home.dart

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

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

  @override
  State<Home> createState() => _HomeState();
}

class _HomeState extends State<Home> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(
        child: Container(
          padding: EdgeInsets.all(8.0),
          child: TextButton.icon(
            onPressed: () {
              Navigator.pushNamed(context, "/location");
            },
            icon: Icon(Icons.edit_location,
              color: Colors.redAccent,
            ),
            label: Text("Edit Location",
              style: TextStyle(
                fontSize: 18.0,
                color: Colors.redAccent,
              ),
            ),
          ),
        ),
      ),
    );
  }
}
```

loading.dart

```
import "package:flutter/material.dart";
import 'dart:convert';
import 'package:http/http.dart';
import 'package:lab10/world_time.dart';

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

  @override
  State<Loading> createState() => _LoadingState();
}

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

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

  void initState() {
    super.initState();
    // getData();
    setWorldTime();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Loading Screen"),
        centerTitle: true,
        backgroundColor: Colors.redAccent,
      ),
      body: Container(
        padding: EdgeInsets.all(16.0),
        child: Text(time.toString()),
      ),
    );
  }
}
```

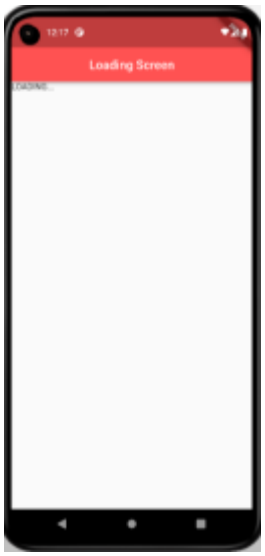
choose_location.dart

```
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 initState() {
    super.initState();
    print("INIT STATE FUNCTION RAN IN CHOOSE LOCATION ... ");
  }

  @override
  Widget build(BuildContext context) {
    print("BUILD FUNCTION OF CHOOSE LOCATION");
    return Scaffold(
      appBar: AppBar(
        title: Text("CHOOSE LOCATION"),
        centerTitle: true,
        backgroundColor: Colors.redAccent,
      ),
      body: ElevatedButton(
        onPressed: () {
          setState(() {
            counter ++;
          });
        },
        child: Text("Counter = $counter"),
        style: ElevatedButton.styleFrom(
          primary: Colors.redAccent,
        ),
      ),
    );
  }
}
```

main.dart

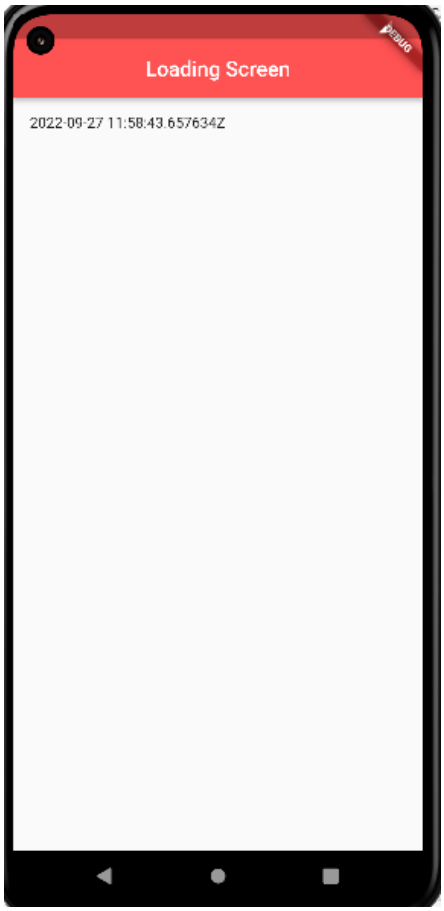
```
import "package:flutter/material.dart";
import 'package:lab10/loading.dart';
import 'package:lab10/choose_location.dart';
import 'package:lab10/home.dart';

void main() {
  runApp(MaterialApp(
    initialRoute: "/",
    routes: {
      "/": (context) => Loading(),
      "/home": (context) => Home(),
      "/location": (context) => ChooseLocation(),
    },
  ));/**/
}
```



World_time.dart

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

class WorldTime {

  String? location;
  String? time;
  String? flag;
  String? url;

  WorldTime({ this.location,this.flag,this.url });

  Future<void> getTime() async {
    Response response = await
```

```
get(Uri.parse('http://worldtimeapi.org/api/timezone/$url'));
    Map timeData = jsonDecode(response.body);
    String dateTime = timeData['datetime'];
    String offset = timeData['utc_offset'];
    String offsetHours = offset.substring(1,3);
    String offsetMinutes = offset.substring(4,6);
    DateTime currenttime = DateTime.parse(dateTime);
    currenttime = currenttime.add(
        Duration(minutes:
        int.parse(offsetMinutes),hours:int.parse(offsetHours)));
    time = currenttime.toString();
  }
}
```



https://github.com/nishu-mns/SDP/tree/main/lab10