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**Roll No**: CE071 **ID**: 20ITUOS088 **Batch**: A4 Lab: 12

**GitHub link**: https://github.com/MurtazaMister/CE071\_SDP/blob/master/Lab12

#### Main.dart

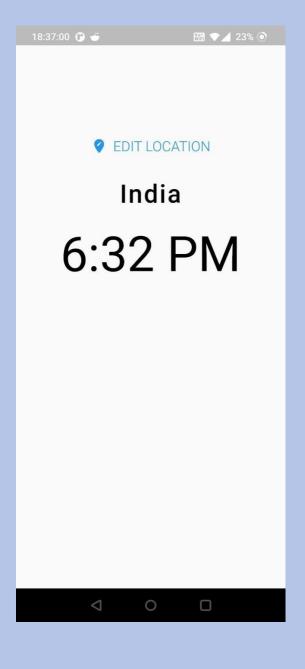
### World\_time.dart

```
import 'package:http/http.dart';
import 'dart:convert';
import 'package:intl/intl.dart';
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
  bool? isDayTime; // for day time background image setting
 WordTime({this.location, this.flag, this.url});
 Future<void> getTime() async {
    try {
// Make Request for time and receive response
      Response response = await get(Uri.parse(
          'http://worldtimeapi.org/api/timezone/$url')); // Asia/Kolkata
     Map timeData = jsonDecode(response.body);
// Get particular property form timeData...
      String dateTime = timeData['datetime'];
```

## Loading.dart

```
import 'package:flutter/material.dart';
import 'package:lab 12/Services/world time.dart';
import 'package:flutter_spinkit/flutter_spinkit.dart';
class Loading extends StatefulWidget {
 @override
 State<Loading> createState() => _LoadingState();
class LoadingState extends State<Loading> {
 void setWorldTime() async {
   WordTime timeinstance =
   WordTime(location: 'India',flag: 'india.png',url: 'Asia/Kolkata');
    await timeinstance.getTime();
   Navigator.pushReplacementNamed(context, '/home',arguments: {
      'location' : timeinstance.location,
      'flag' : timeinstance.flag,
      'time' : timeinstance.time,
      'isDayTime' : timeinstance.isDayTime,
    });
 @override
 void initState() {
    super.initState();
    setWorldTime();
```

```
@override
Widget build(BuildContext context) {
   return Scaffold(
      backgroundColor: Colors.deepPurpleAccent,
      body: Center(
        child: SpinKitFadingCube(
            color: Colors.white,
            size: 90.0,
        ),
      )
   );
  }
}
```



#### Home.dart

### "Night.jpg"

```
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) {
    data = data.isNotEmpty
        ? data
        : ModalRoute.of(context)?.settings.arguments as Map;
    print(data);
// set background images
    String bgImage = data['isDayTime'] ? 'mrng.jpg' : 'night.jpg';
    Color? appBgColor = data['isDayTime'] ? Colors.blue : Colors.indigo[900];
    return Scaffold(
      backgroundColor: appBgColor,
      body: SafeArea(
          child: Container(
        decoration: BoxDecoration(
            image: DecorationImage(
          image: AssetImage('assets/images/night.jpg'),
         fit: BoxFit.cover,
        )),
        child: Padding(
          padding: const EdgeInsets.fromLTRB(0.0, 120.0, 0.0, 0.0),
          child: Column(
            children: [
              TextButton.icon(
                onPressed: () async {
                  dynamic result =
                      await Navigator.pushNamed(context, '/location');
                  setState(() {
                    data = {
                      'time': result['time'],
                      'location': result['location'],
                      'isDayTime': result['isDayTime'],
                      'flag': result['flag'],
                    };
                  });
```

```
},
                icon: Icon(
                  Icons.edit_location,
                  color: Colors.grey[300],
                ),
                label: Text(
                  'EDIT LOCATION',
                  style: TextStyle(
                    color: Colors.grey[300],
                    fontWeight: FontWeight.w300,
                    fontSize: 20,
                  ),
                ),
              ),
              SizedBox(height: 24.0),
              Row(
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
                  Text(
                    data['location'],
                    style: TextStyle(
                      letterSpacing: 2.0,
                      fontSize: 36.0,
                      fontWeight: FontWeight.w500,
                      color: Colors.white70,
                    ),
                ],
              ),
              SizedBox(
                height: 24.0,
              ),
              Text(
                data['time'],
                style: TextStyle(
                  fontSize: 70.0,
                  color: Colors.white70,
               ),
           ],
       ),
)),
```



## Home.dart

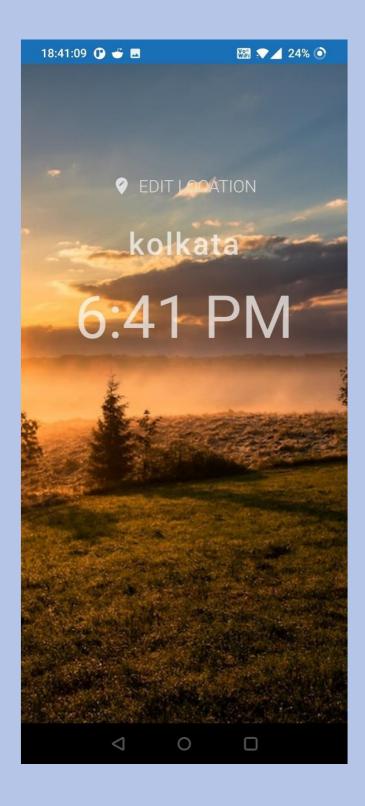
# "Day.jpg"

```
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) {
    data = data.isNotEmpty
        ? data
        : ModalRoute.of(context)?.settings.arguments as Map;
    print(data);
// set background images
    String bgImage = data['isDayTime'] ? 'mrng.jpg' : 'night.jpg';
    Color? appBgColor = data['isDayTime'] ? Colors.blue : Colors.indigo[900];
    return Scaffold(
      backgroundColor: appBgColor,
      body: SafeArea(
          child: Container(
        decoration: BoxDecoration(
            image: DecorationImage(
          image: AssetImage('assets/images/day.jpg'),
          fit: BoxFit.cover,
        )),
        child: Padding(
          padding: const EdgeInsets.fromLTRB(0.0, 120.0, 0.0, 0.0),
          child: Column(
            children: [
              TextButton.icon(
                onPressed: () async {
                  dynamic result =
                      await Navigator.pushNamed(context, '/location');
                  setState(() {
                    data = {
                      'time': result['time'],
                      'location': result['location'],
                      'isDayTime': result['isDayTime'],
                      'flag': result['flag'],
                    };
                  });
                },
                icon: Icon(
                  Icons.edit_location,
                  color: Colors.grey[300],
                ),
                label: Text(
                  'EDIT LOCATION',
                  style: TextStyle(
                    color: Colors.grey[300],
```

```
fontWeight: FontWeight.w300,
                     fontSize: 20,
                    ),
                  ),
                ),
                SizedBox(height: 24.0),
                Row(
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: [
                    Text(
                      data['location'],
                      style: TextStyle(
                        letterSpacing: 2.0,
                        fontSize: 36.0,
                        fontWeight: FontWeight.w500,
                        color: Colors.white70,
                 ],
                ),
                SizedBox(
                 height: 24.0,
                ),
                Text(
                  data['time'],
                  style: TextStyle(
                    fontSize: 70.0,
                    color: Colors.white70,
                  ),
          ),],
)),
}
}
         ),
```



#### Home.dart

# "using \$bqImage"

```
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) {
    data = data.isNotEmpty
        ? data
        : ModalRoute.of(context)?.settings.arguments as Map;
    print(data);
// set background images
    String bgImage = data['isDayTime'] ? 'mrng.jpg' : 'night.jpg';
    Color? appBgColor = data['isDayTime'] ? Colors.blue : Colors.indigo[900];
    return Scaffold(
      backgroundColor: appBgColor,
      body: SafeArea(
          child: Container(
        decoration: BoxDecoration(
            image: DecorationImage(
          image: AssetImage('assets/images/$bgImage'),
          fit: BoxFit.cover,
        )),
        child: Padding(
          padding: const EdgeInsets.fromLTRB(0.0, 120.0, 0.0, 0.0),
          child: Column(
            children: [
              TextButton.icon(
                onPressed: () async {
                  dynamic result =
                      await Navigator.pushNamed(context, '/location');
                  setState(() {
                    data = {
                      'time': result['time'],
                      'location': result['location'],
                      'isDayTime': result['isDayTime'],
                      'flag': result['flag'],
                    };
                  });
                },
                icon: Icon(
                  Icons.edit_location,
                  color: Colors.grey[300],
                ),
                label: Text(
                  'EDIT LOCATION',
                  style: TextStyle(
                    color: Colors.grey[300],
```

```
fontWeight: FontWeight.w300,
                     fontSize: 20,
                    ),
                  ),
                ),
                SizedBox(height: 24.0),
                Row(
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: [
                    Text(
                      data['location'],
                      style: TextStyle(
                        letterSpacing: 2.0,
                        fontSize: 36.0,
                        fontWeight: FontWeight.w500,
                        color: Colors.white70,
                 ],
                ),
                SizedBox(
                 height: 24.0,
                ),
                Text(
                  data['time'],
                  style: TextStyle(
                    fontSize: 70.0,
                    color: Colors.white70,
                  ),
          ),],
)),
}
}
         ),
```



# **Choose location.dart**

```
import 'package:flutter/material.dart';
import 'package:lab_12/Services/world_time.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;
 List<WordTime> locations = [
   WordTime(location: 'kolkata', flag: 'india.png', url: 'Asia/Kolkata'),
   WordTime(location: 'Manila', flag: 'philippines.png', url: 'Asia/Manila'),
   WordTime(
        location: 'Singapore', flag: 'singapore.png', url: 'Asia/Singapore'),
   WordTime(
        location: 'Brisbane', flag: 'australia.png', url:
'Australia/Brisbane'),
   WordTime(location: 'Madrid', flag: 'spain.png', url: 'Europe/Madrid'),
   WordTime(location: 'Vienna', flag: 'austria.png', url: 'Europe/Vienna'),
   WordTime(
        location: 'Maldives', flag: 'maldives.png', url: 'Indian/Maldives'),
   WordTime(
        location: 'Johannesburg',
        flag: 'south-africa.png',
        url: 'Africa/Johannesburg'),
        location: 'Barbados', flag: 'barbados.png', url: 'America/Barbados'),
   WordTime(
        location: 'Costa Rica',
        flag: 'costa-rica.png',
        url: 'America/Costa_Rica'),
   WordTime(location: 'Jamaica', flag: 'jamaica.png', url:
America/Jamaica'),
   WordTime(location: 'Phoenix', flag: 'usa.png', url: 'America/Phoenix'),
   WordTime(
        location: 'Broken_Hill',
        flag: 'australia.png',
        url: 'Australia/Broken_Hill'),
   WordTime(location: 'Moscow', flag: 'russia.png', url: 'Europe/Moscow'),
 void updateTime(index) async {
   WordTime instance = locations[index];
   await instance.getTime();
```

```
// navigate to home screen by popping instead of pushing new replica
// of home screen
   Navigator.pop(context, {
      'location': instance.location,
      'flag': instance.flag,
      'time': instance.time,
      'isDayTime': instance.isDayTime,
   });
 @override
 Widget build(BuildContext context) {
// print('BUILD FUNCTION RUN IN CHOOSE LOCATION...');
    return Scaffold(
      backgroundColor: Colors.blueGrey[200],
// PLACED "BACK ARROW <- .....
      appBar: AppBar(
        backgroundColor: Colors.deepPurpleAccent,
        title: Text('CHOOSE LOCATION'),
        centerTitle: true,
        elevation: 0,
      ),
      body: ListView.builder(
        itemCount: locations.length,
        itemBuilder: (context, index) {
          return Padding(
            padding: const EdgeInsets.symmetric(vertical: 1.0, horizontal:
4.0),
            child: Card(
              child: ListTile(
                onTap: () {
                  updateTime(index);
                title: Text(locations[index].location.toString()),
                leading: CircleAvatar(
                  backgroundImage:
                      AssetImage('assets/flags/${locations[index].flag}'),
                ),
             ),
           ),
         );
    ),
```

