ASSIGNMENT 11

Subject: Smart Device Programming

Submitted To:

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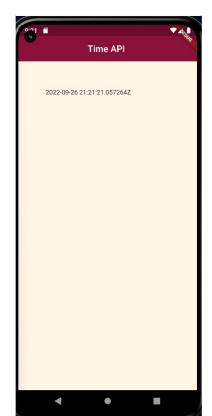
Code test 1: Handling Error: Try
Catch

Using the world-time API, continue developing the app that we started in the last lab.

```
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();
}
```

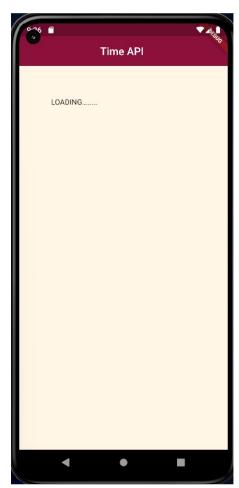


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Now we will add error handling. For that first of all make some intentionality mistake. i.e. Remove one character from API string

```
Future<void> getTime() async {
   Response response = await get(Uri.parse('http://worldtimeapi.org/api/timzone/$url'));
   Map timeData = jsonDecode(response.body);
```

Then output will be as shown below. Here in output we



be ...

can see that loading is printing.
So we need to do something that will display error accordingly.
Here on error we are setting time value to some appropriate message. So that it can be displayed there.

```
time = currenttime.toString();
}
catch(e){
  print('Caught error : $e');
  time = 'Could not get time data';
}
```

So if there is some issue in fetching time then we

can set time value as shown above. So updated output would



Code test 2: Data passing between route

Code test 3: Formatting and showing data—dates

Do some modifications in loading.dart file as shown below.

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

Here we are using routing with passing some additional arguments into it. So in home.dart file we can access location, flag and time field.

Basic routing

Now we will perform some formatting steps using intl. For that we need to add it into pubspec.yaml Import intl in time.dart file and change accordingly that file.

```
int.parse(offsetMinutes), hours: int.parse(offsetHours

time = DateFormat.jm().format(currenttime);

//time = currenttime.toString();
}
catch(e){
```

Now home.dart file would contains below code.

```
@override
Widget build(BuildContext context) {
  data = ModalRoute.of(context)?.settings.arguments as Map;
 print(data);
  return Scaffold(
   backgroundColor: Color(0xffFFF5E4),
    appBar: AppBar(
   — title: Text('Time API '),
     backgroundColor: Color(0xff850E35),
   body: SafeArea(
    —— child: Padding(
         padding: const EdgeInsets.fromLTRB(0.0,120.0,0.0,0.0),
         - child: Column(
           children: [
             - Row(
                children: [
                - Text(
                    style: TextStyle(
                     letterSpacing: 2.0,
```

Final Output:



into loading

Code test 4: Using spinners for loading page

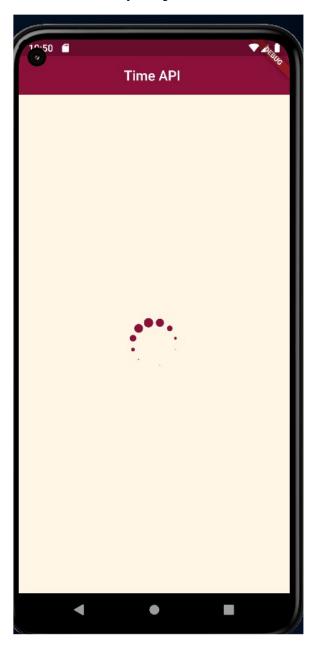
Add flutter spinkit into pubspec.yaml file and

import it flutter:

sdk: flutter http: ^0.13.5 intl: ^0.17.0

__lutter_spinkit: ^5.1.0

Now we will use flutter spinner for loading and after data fetched current time and location will be displayed.



GitHub repository link:

https://github.com/TulsiLukhi1/Smat-Device-Programming/tree/master/Lab11