ASSIGNMENT 10

Subject: Smart Device Programming

Submitted To:

Prof. Jignesh Shah CE Department

Submitted By:

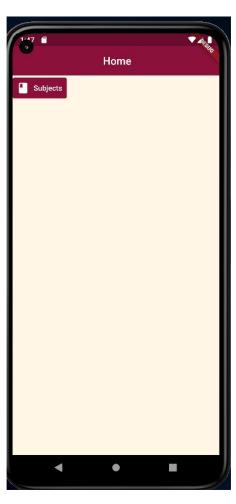
Tulsi Lukhi

Student ID:20CEUOG137

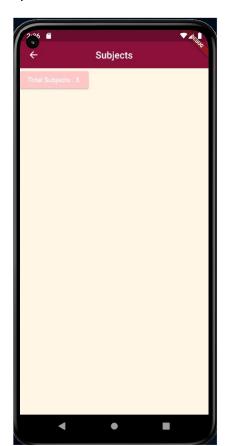
Roll No.: CE062

Subjects.dart home.dart





We have set counter such that each time we will press button it will increment number of subjects and print line in colsole.



```
I/flutter ( 3422): Build in subjects
                                                             I/flutter ( 3422): Build in subjects
                                                             I/flutter ( 3422): Build in subjects
                                                      Performing hot reload...
                                                          Syncing files to device Android SDK built for x86 64...
                                                          I/flutter ( 3422): Build in subjects
                                                          Reloaded 2 of 587 libraries in 1,810ms.
                                                          I/flutter ( 3422): Before getData call
                                                          I/flutter ( 3422): After getData call
                                                          I/flutter ( 3422): Build in subjects
                                                          I/flutter ( 3422): Inside getData
                                                        Using async await output would be
                                                        as below:
//print('Init state in subjects'
                         Console
                              Performing hot reload...
                              Syncing files to device Android SDK built for x86 64...
                              I/flutter ( 3422): Build in subjects
        Now we will
                              Reloaded 1 of 587 libraries in 1,091ms.
        use fake api
                              I/flutter ( 3422): Build in subjects
        for json.
                              I/flutter ( 3422): University : DDU -> Dharmsinh Desai University
        Below is the
        code for
        that. In
```

Console

Restarted application in 10,842ms.

I/flutter (3422): Init state in subjects
I/flutter (3422): Build in subjects
I/flutter (3422): Build in subjects
I/flutter (3422): Build in subjects

code, we have defined one method using async await in order to get synchronized outout. The final output would be shown in console.

First print statement will print whole response fetched by api. Then second statement will print data part. In third statement we are printing only title from all the data.

dependencies:

g sdk: flutter

http: ^0.13.5

Add this code into pubspec.yaml in order to include http package.

```
void getData() async {
                                                                                                  Loading Screen
 final response = await get(Uri.parse('https://jsonplaceholder.typicode.com/albums/1'));
                               Restarted application in 7,290ms.
                                   I/flutter ( 3888): {
                                   I/flutter ( 3888):
void initState() {
                                  I/flutter ( 3888): "title": "quidem molestiae e
                                   I/flutter ( 3888): }
                                   I/flutter ( 3888): quidem molestiae enim
@override
 return Scaffold(
   backgroundColor: Color(0xffFFF5E4),
   appBar: AppBar(
   — title: Text(' Loading Screen'),
     backgroundColor: Color(0xff850E35),
```

World Time API

```
Performing hot restart...

Syncing files to device Android SDK built for x86 64...

Restarted application in 5,217ms.

I/flutter ( 3888): {abbreviation: IST, client_ip: 2409:4041:2cba:4387:311d:36ee:a17a:c76b, datetime: 2022-09-17T15:19:28

.924838+05:30, day_of_week: 6, day_of_year: 260, dst: false, dst_from: null, dst_offset: 0, dst_until: null, raw_offset: 19800, timezone: Asia/Kolkata, unixtime: 1663408168, utc_datetime: 2022-09-17T09:49:28.924838+00:00, utc_offset: +05:30, week_number: 37}

I/flutter ( 3888): 2022-09-17T15:19:28.9248382

I/flutter ( 3888): 2022-09-17 09:49:28.9248382

I/flutter ( 3888): 30

I/flutter ( 3888): 30

I/flutter ( 3888): 300

I/flutter ( 3888): 2022-09-17 15:19:28.9248382
```

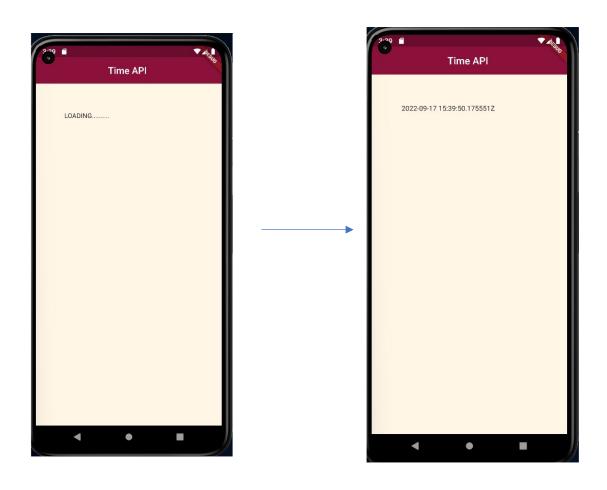
We can set any region. First we have retrived time of Kolcutta, Then Salata.

Now we will print this time on our device screen. For that create two files and add below code into it.

```
Console Consol
```



```
class WordTime {
 String? location;
 String? time;
 String? flag;
 String? url;
 Future<void> getTime() async {
   Response response = await
   get(Uri.parse('http://worldtimeapi.org/api/timezone/$url')); // Asia/Kolkata
   Map timeData = jsonDecode(response.body);
   String dateTime = timeData['datetime'];
   String offset = timeData['utc_offset']; //not dst_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();
```



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https://github.com/TulsiLukhi1/Smat-Device-Programming/tree/master/Lab10