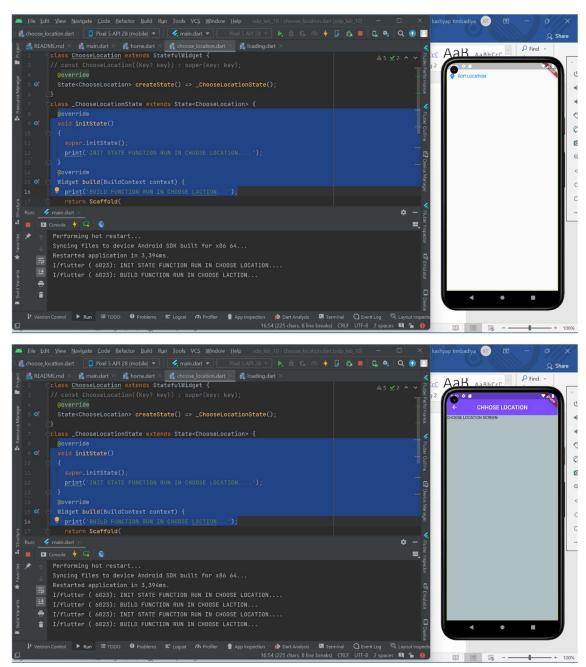
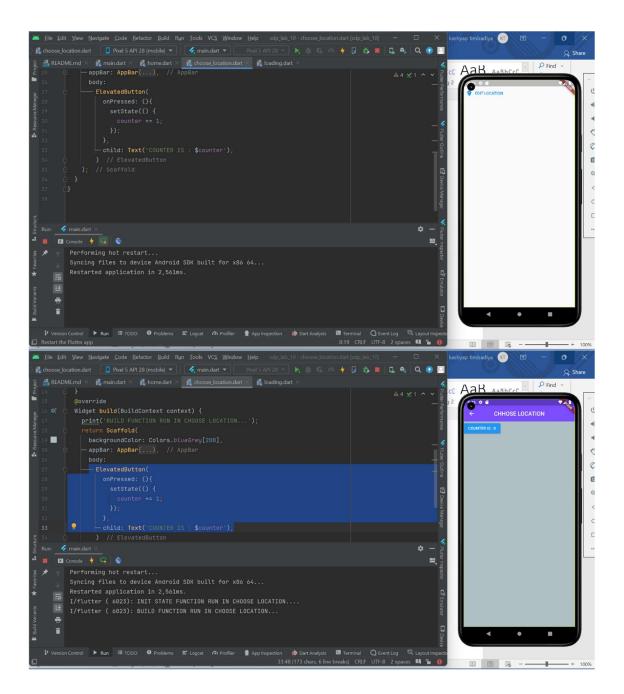
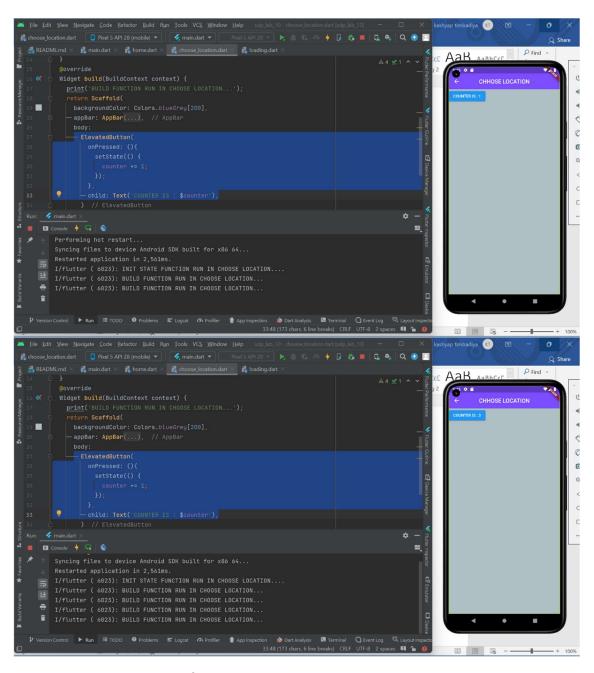
## Code Test1: Test for initState() and build()



### Now test for After setState() check the changes

```
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> {
```

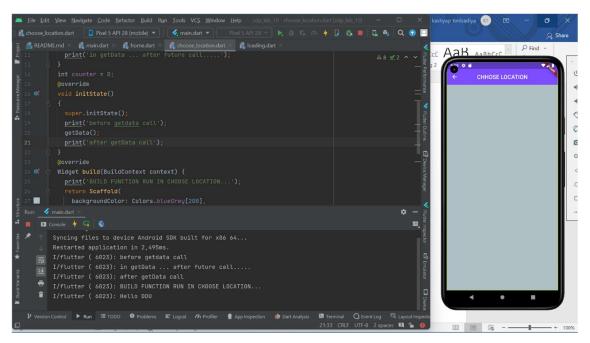




#### Code test 2- Async in flutter

```
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> {
  void getData() {
    Future.delayed(Duration(seconds: 4),() {
        print('Hello DDU');
      });
      print('in getData ... after future call....');
}
```

```
int counter = 0;
@override
void initState()
{
    super.initState();
    print('before getdata call');
    getData();
    print('after getData call');
}
@override
Widget build(BuildContext context) {
    print('BUILD FUNCTION RUN IN CHOOSE LOCATION...');
    return Scaffold(
        backgroundColor: Colors.blueGrey[200],
        appBar: AppBar(
        backgroundColor: Colors.deepPurpleAccent,
        title: Text('CHHOSE LOCATION'),
        centerTitle: true,
        elevation: 0,
    ),
    );
}
```



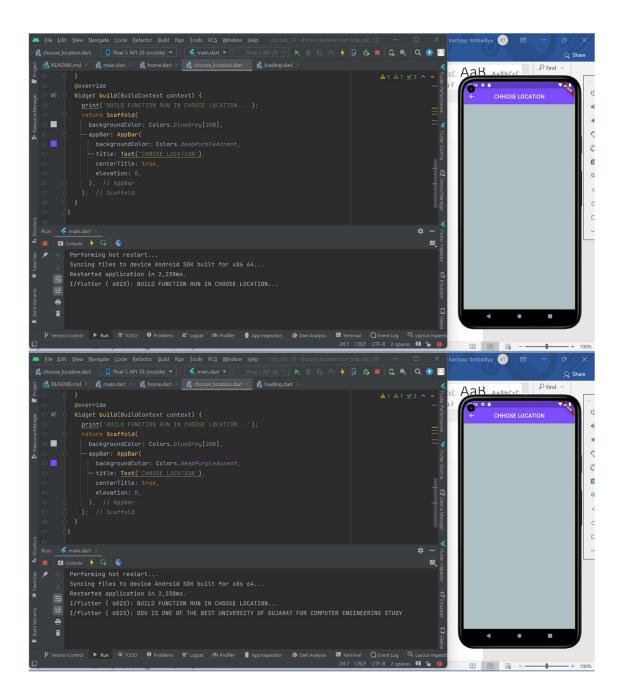
Above code teach us that code not blocked due to async call...

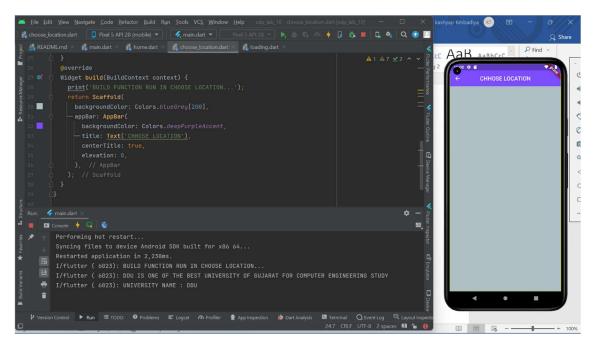
But some times we need to wait for response of request...

> Some time new request depends on the data of first request... So in such situation second request must have to wait until the first one not completed..

```
import 'package:flutter/material.dart';
class ChooseLocation extends StatefulWidget {
// const ChooseLocation({Key? key}) : super(key: key);
```

```
Future.delayed(Duration(seconds: 4),(){
 appBar: AppBar(
```





#### Solution: use Async, Await, Future, Delayed

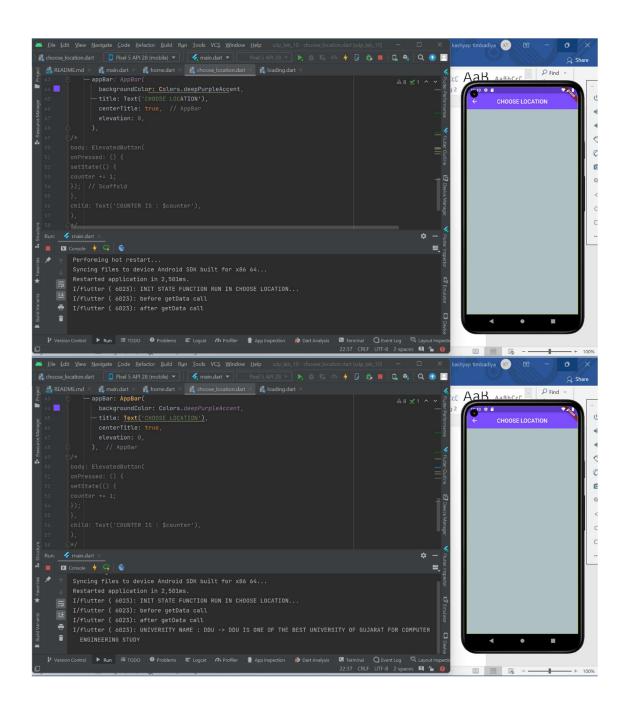
```
import 'package:flutter/material.dart';
class ChooseLocation extends StatefulWidget {
    // const ChooseLocation({Key? key}) : super(key: key);
    @override
    State<ChooseLocation> createState() => _ChooseLocationState();
}
class _ChooseLocationState extends State<ChooseLocation> {
    int counter = 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 lst 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 lst request....

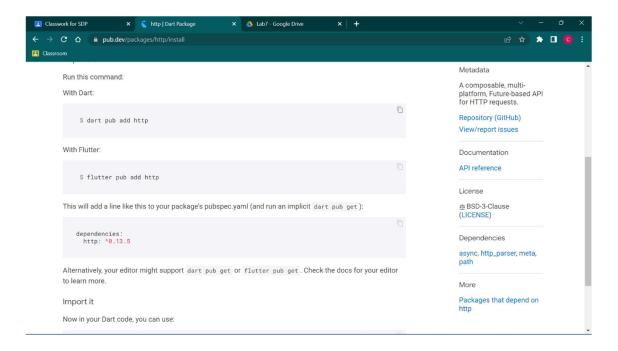
        String bio = await Future.delayed(Duration(seconds: 2), () {
            return 'DDU Is ONE OF THE BEST UNIVERSITY OF GUJARAT FOR COMPUTER

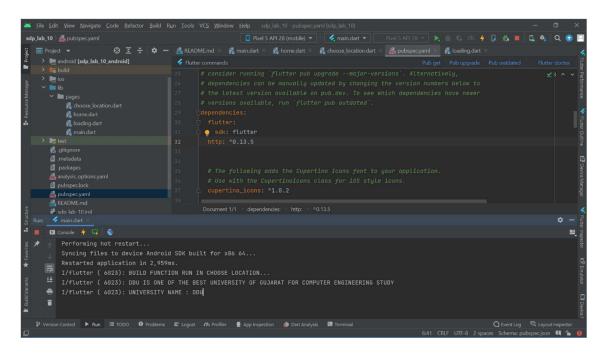
ENGINEERING STUDY';
        });
        print('$username -> $bio');
        }
        @override
        void initState() {
        // TODO: implement initState
        super.initState();
        print('INIT STATE FUNCTION RUN IN CHOOSE LOCATION...');
        print('before getData call');
        getData();
        print('after getData call');
    }
}
```

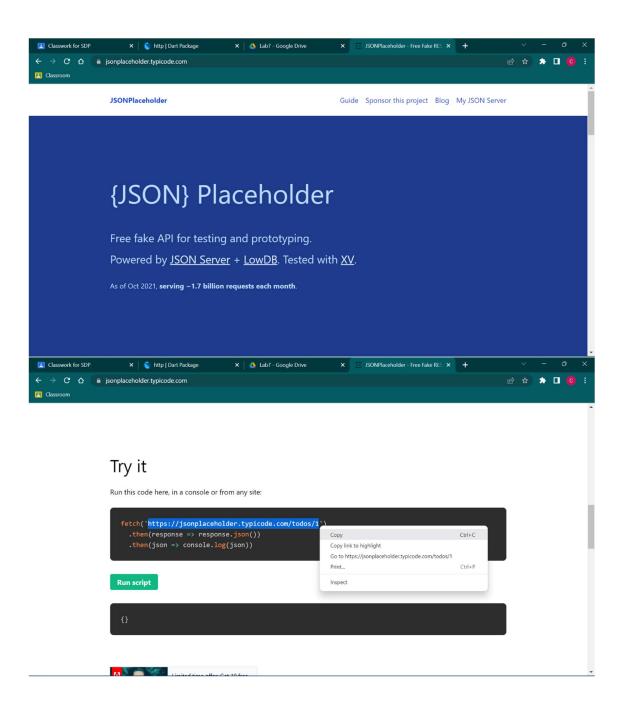
```
@override
Widget build(BuildContext context) {
// print('BUILD FUNCTION RUN IN CHOOSE LOCATION...');
    return Scaffold(
        backgroundColor: Colors.blueGrey[200],
// when we come/route from different screen IN APPBAR FLUTTER WILL
DEFAULTLY
// PLACED "BACK ARROW <- ....
        appBar: AppBar(
            backgroundColor: Colors.deepPurpleAccent,
            title: Text('CHOOSE LOCATION'),
            centerTitle: true,
            elevation: 0,
        ),
        /*
    body: ElevatedButton(
onPressed: () {
    setState() {
    counter += 1;
    ));
    },
    child: Text('COUNTER IS : $counter'),
    /*
        /;
    }
}</pre>
```



Code Test 3: packages and API calling basic







# Main.dart import 'package:flutter/material.dart'; import 'package:sdp\_lab\_10/pages/choose\_location.dart';

```
1,
),
);
}
```

```
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;

    @override
    Widget build(BuildContext context) {
        // print('BUILD FUNCTION RUN IN CHOOSE LOCATION...');
        return Scaffold(
            backgroundColor: Colors.blueGrey[200],
            appBar: AppBar(
                backgroundColor: Colors.deepPurpleAccent,
                title: Text('CHHOSE LOCATION'),
                centerTitle: true,
                elevation: 0,
                ),
                );
        }
}
```

```
Loading.dart
import 'package:flutter/material.dart';
import 'package:http/http.dart';
import 'dart:convert';

class Loading extends StatefulWidget {
   // const Loading({Key? key}) : super(key: key);
   @override
   State<Loading> createState() => _LoadingState();
}
class _LoadingState extends State<Loading> {
   // void getData() async {
   // string username = await Future.delayed(Duration(seconds: 4), () {
        // return 'UNIVERSITY NAME : DDU';
   // });
   //
   // String bio = await Future.delayed(Duration(seconds: 2), () {
```

```
return 'DDU IS ONE OF THE BEST UNIVERSITY OF GUJARAT FOR
```