

MAD & PWA LAB

EXP- 5

Name : Himanshu Lohote

Class: D15A

Roll No. 32

Aim: To apply navigation, routing and gestures in Flutter App

Code:

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

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Navigation and Gestures',
      initialRoute: '/',
      routes: {
        '/': (context) => FirstScreen(),
        '/second': (context) => SecondScreen(),
      },
    );
  }
}

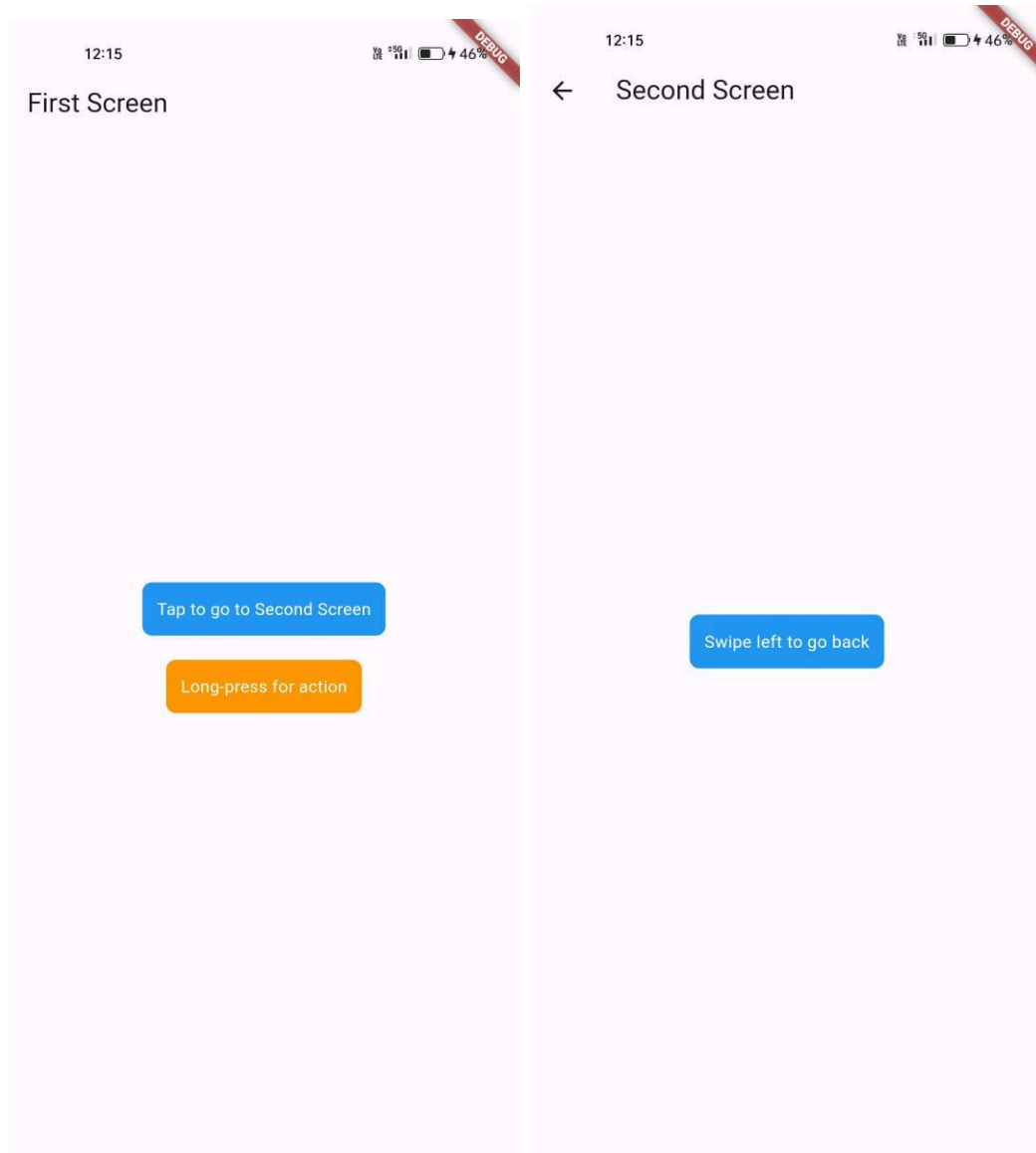
class FirstScreen extends StatelessWidget {
  @override
```

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(title: Text('First Screen')),  
    body: Center(  
      child: Column(  
        mainAxisAlignment: MainAxisAlignment.center,  
        children: [  
          GestureDetector(  
            onTap: () {  
              Navigator.pushNamed(context, '/second');  
            },  
            child: Container(  
              padding: EdgeInsets.all(12.0),  
              decoration: BoxDecoration(  
                color: Colors.blue,  
                borderRadius:  
BorderRadius.circular(8.0),  
              ),  
              child: Text(  
                'Tap to go to Second Screen',  
                style: TextStyle(color: Colors.white),  
              ),  
            ),  
          ),  
          SizedBox(height: 20),  
          GestureDetector(  
            onLongPress: () {  
              // Perform any action here  
  
ScaffoldMessenger.of(context).showSnackBar(  
              SnackBar(content: Text('Long press  
detected'))),  
          ),  
        ],  
      ),  
    ),  
  );  
}
```

```
        );  
      },  
      child: Container(  
        padding: EdgeInsets.all(12.0),  
        decoration: BoxDecoration(  
          color: Colors.orange,  
          borderRadius:  
BorderRadius.circular(8.0),  
        ),  
        child: Text(  
          'Long-press for action',  
          style: TextStyle(color: Colors.white),  
        ),  
      ),  
    ),  
  ],  
),  
),  
);  
}  
}
```

```
class SecondScreen extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(title: Text('Second Screen')),  
      body: Center(  
        child: GestureDetector(  
          onHorizontalDragEnd: (details) {  
            // Detect swipe gesture to navigate back  
            if (details.primaryVelocity! < 0) {
```

```
        Navigator.pop(context);
      },
      child: Container(
        padding: EdgeInsets.all(12.0),
        decoration: BoxDecoration(
          color: Colors.blue,
          borderRadius: BorderRadius.circular(8.0),
        ),
        child: Text(
          'Swipe left to go back',
          style: TextStyle(color: Colors.white),
        ),
      ),
    ),
  ),
);
}
```

Output:**Navigation, Tap and Swipe Gesture:**

Long Press Gesture:

