**Experiment 4**

1. **Set up navigation between different screens using Navigator.**
2. **Implement navigation with named routes.**

**Aim:**

To set up navigation between screens using Navigator and implement navigation with named routes in a Flutter application.

**Objective:**

* To understand navigation in Flutter..
* To implement basic and named route navigation in a Flutter application.

**Procedure:**

Step 1:

Open the Android Studio and select new flutter file.

Step 2:

Create multiple classes in dart file.

Step 3:

Use Navigator.push and Navigator.pop for screen transitions.

Step 4:

Define named routes in MaterialApp's routes property.

Step 5:

Run application by choosing chrome web.

**Code Snippet:**

**1.Navigation using Navigator:**

import 'package:flutter/material.dart';

void main() {

runApp(const MyApp());

}

class MyApp extends StatelessWidget {

const MyApp({super.key});

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Navigation',

theme: ThemeData(

colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),

useMaterial3: true,

),

home: MyHomePage(),

);

}

}

class MyHomePage extends StatelessWidget {

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: Text('Welcome to first page')),

body: Center(

child: ElevatedButton(

onPressed: () {

Navigator.push(

context,

MaterialPageRoute(builder: (context)=> SecondScreen())

);

},

child: Text("Go to Second page")),

),

);

}

}

class SecondScreen extends StatelessWidget {

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: Text("welcome to seconde page")),

body: Center(

child: ElevatedButton(

onPressed: () {

Navigator.pop(context);

},

child: Text("Go Back")),

),

);

}

}

**2.Navigation with Named Routes:**

import 'package:flutter/material.dart';

void main() {

runApp(const MyApp());

}

class MyApp extends StatelessWidget {

const MyApp({super.key});

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Navigation',

theme: ThemeData(

colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),

useMaterial3: true,

),

home: MyHomePage(),

);

}

}

class MyHomePage extends StatelessWidget {

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: Text('Welcome to first page')),

body: Center(

child: ElevatedButton(

onPressed: () {

Navigator.push(

context,

MaterialPageRoute(builder: (context)=> SecondScreen())

);

},

child: Text("Go to Second page")),

),

);

}

}

class SecondScreen extends StatelessWidget {

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: Text("welcome to seconde page")),

body: Center(

child: ElevatedButton(

onPressed: () {

Navigator.pop(context);

},

child: Text("Go Back")),

),

);

}

}

**Conclusion:**

Successfully implemented navigation between screens using both Navigator and named routes in android studio.