Experiment No:- 05

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Aim: To apply routing in Flutter Application Theory:

In Flutter, routing refers to the navigation system that allows users to move between different screens or pages within an app. Flutter uses a widget-based approach for navigation, where each screen is represented by a widget. The 'Navigator' class manages the stack of routes and facilitates transitions between them.

Routes are typically defined using the 'MaterialPageRoute' class, providing a seamless and platform-aware transition between screens. Developers can use the 'Navigator' to push new routes onto the stack or pop existing routes off it. Named routes help in easily identifying and navigating to specific screens.

Flutter also supports route arguments, allowing developers to pass data between screens. Additionally, the 'Navigator' provides a flexible set of transitions, such as slide, fade, or custom animations, enhancing the user experience during navigation.

Overall, Flutter's routing system provides a structured and intuitive way to handle navigation within mobile and web applications.

Code & Implementation:

```
ignore for file: prefer const constructors,
                                                              Offset offset = Offset(0, 0);
prefer const literals to create immutables
                                                              @override
import 'package:firebase auth/firebase auth.dart';
                                                              Widget build(BuildContext context) {
import 'package:flutter/material.dart';
                                                               return Scaffold(
import 'package:rapido/AllWidgets/Divider.dart';
                                                                key: scaffoldKey,
class Homepage extends StatefulWidget {
                                                                appBar: AppBar(
                                                                 title: Text("Homepage"),
 const Homepage({Key? key}) : super(key: key);
 @override
                                                                ),
 State<Homepage> createState() =>
                                                                drawer: Drawer(
HomePageState();
                                                                 child: ListView(
                                                                  children: [
}
                                                                   GestureDetector(
class HomePageState extends State<Homepage> {
                                                                     onTap: () {
 final User? user =
                                                                      scaffoldKey.currentState?.openDrawer();
FirebaseAuth.instance.currentUser:
                                                                     },
 GlobalKey<ScaffoldState> scaffoldKey =
                                                                     child: Container(
GlobalKey<ScaffoldState>();
                                                                      height: 165.0,
 Future<void> signOut() async {
                                                                      child: DrawerHeader(
  await FirebaseAuth.instance.signOut();
                                                                       decoration: BoxDecoration(color:
                                                            Colors.white),
 bool isDragging = false;
                                                                       child: Row(
```

children: [),
<pre>Icon(Icons.account_circle, color:</pre>	ListTile(
Colors.black),	leading: Icon(Icons.logout),
SizedBox(width: 16.0),	title: Text("Logout", style:
Column(TextStyle(fontSize: 15)),
mainAxisAlignment:	onTap: () {
MainAxisAlignment.center,	signOut();
children: [},
Text(),
"\${user!.phoneNumber}",],
style: TextStyle(),
fontSize: 16,),
fontWeight: FontWeight.bold,	body: Stack(
),	children: [
),	Center(
	child: Text(
],	"\${user!.phoneNumber}",
),	style: TextStyle(fontSize: 18),
],),
),),
),	Positioned(
),	left: 0.0,
),	right: 0.0,
Divider(),	bottom: _isDragging ? _offset.dy : 0.0,
SizedBox(height: 12),	child: GestureDetector(
ListTile(onPanUpdate: (details) {
leading: Icon(Icons.history),	setState(() {
title: Text("History", style:	_isDragging = true;
TextStyle(fontSize: 15)),	$_{\text{offset}} = \text{Offset}(0, _{\text{offset.dy}} +$
onTap: () {	details.delta.dy / 2); // Adjust the speed
Navigator.pushNamed(context, '/history');	<pre>});</pre>
},	},
),	onPanEnd: (details) {
ListTile(setState(() {
leading: Icon(Icons.person),	_isDragging = false;
title: Text("Visit Profile", style:	
TextStyle(fontSize: 15)),	},
onTap: () {	child: Container(
Navigator.pushNamed(context,	height: 320,
'/visit profile');	decoration: BoxDecoration(
},	color: Colors.white,
),	borderRadius: BorderRadius.only(
ListTile(topLeft: Radius.circular(18),
leading: Icon(Icons.info),	topRight: Radius.circular(18),
title: Text("About", style:),
TextStyle(fontSize: 15)),	boxShadow: [
onTap: () {	BoxShadow(
Navigator.pushNamed(context, '/about');	color: Colors.black,
},	blurRadius: 16,

```
spreadRadius: 0.6,
                                                                             decoration: InputDecoration(
             offset: Offset(0.7, 0.7),
                                                                              prefixIcon: Icon(Icons.search, color:
            ),
                                                             Colors.yellowAccent),
                                                                              hintText: "Search Drop off",
          ],
         ),
                                                                              border: InputBorder.none,
         child: Padding(
                                                                              contentPadding:
          padding: const
                                                             EdgeInsets.symmetric(vertical: 15, horizontal: 20),
EdgeInsets.symmetric(horizontal: 24, vertical: 18),
           child: Column(
                                                                            ),
            crossAxisAlignment:
                                                                           ),
CrossAxisAlignment.start,
                                                                           SizedBox(height: 24),
            children: [
                                                                           Row(
             SizedBox(height: 6),
                                                                            children: [
             Row(
                                                                             Icon(Icons.home, color: Colors.grey),
                                                                             SizedBox(width: 12),
              mainAxisAlignment:
MainAxisAlignment.center,
                                                                             Column(
              children: [
                                                                              crossAxisAlignment:
               Container(
                                                             CrossAxisAlignment.start,
                 height: 4,
                                                                              children: [
                 width: 40,
                                                                               Text("Add Home"),
                 decoration: BoxDecoration(
                                                                               SizedBox(height: 4),
                  color: Colors.black,
                                                                                Text(
                  borderRadius:
                                                                                 "Your Living home address",
BorderRadius.circular(2),
                                                                                style: TextStyle(color:
                                                             Colors.black54, fontSize: 12),
                 ),
               ),
              ],
                                                                              ],
             ),
                                                                             ),
             SizedBox(height: 20),
                                                                            ],
             Container(
                                                                           SizedBox(height: 10),
              decoration: BoxDecoration(
                                                                           DividerWidget(),
               color: Colors.white,
                                                                           SizedBox(height: 10),
               borderRadius:
BorderRadius.circular(5.0),
                                                                           Row(
               boxShadow: [
                                                                            children: [
                BoxShadow(
                                                                             Icon(Icons.work, color: Colors.grey),
                  color: Colors.black54,
                                                                             SizedBox(width: 12),
                  blurRadius: 6,
                                                                             Column(
                  spreadRadius: 0.6,
                                                                              crossAxisAlignment:
                  offset: Offset(0.7, 0.7),
                                                             CrossAxisAlignment.start,
                 ),
                                                                              children: [
                                                                               Text("Add Work"),
               ],
                                                                                SizedBox(height: 4),
              child: TextFormField(
               onTap: () {
                                                                                 "Your office address",
                                                                                style: TextStyle(color:
FocusScope.of(context).requestFocus(FocusNode());
                                                             Colors.black54, fontSize: 12),
                                                                               ),],),],),),),),);}}
               },
```



