# Aditya P Tahiliani Batch :- C

**D15A\_59**

**Experiment no. :- 05**

**Aim :-** : **To apply navigation,routing and gestures in Flutter.**

**Theory :-**

In Flutter, navigation, routing, and gestures are essential concepts for creating interactive and navigable user interfaces.

**Navigation:** Navigation refers to the process of moving between different screens or pages within a Flutter app. Flutter provides the Navigator widget for managing navigation and routing.

**Routing:** Routing is the mechanism used to define the paths or routes between different screens in your app. Each route typically corresponds to a different widget or screen in your app.

**Gesture Detection:** Gestures allow users to interact with the app by tapping, dragging, swiping, or performing other touch-based actions. Flutter provides various gesture detection widgets to handle user input.

GestureDetector( onTap: () {

print('Container tapped');

},

child: Container( width: 200,

height: 200, color: Colors.blue, child: Center(

child: Text('Tap Me'),

),

),

)

**Code :-**

import 'package:firebase\_auth/firebase\_auth.dart'; import 'package:flutter/material.dart';

import 'package:flutter\_to\_do\_list/const/colors.dart'; import 'package:flutter\_to\_do\_list/data/firestor.dart';

class Add\_creen extends StatefulWidget { const Add\_creen({super.key});

@override

State<Add\_creen> createState() => \_Add\_creenState();

}

class \_Add\_creenState extends State<Add\_creen> { final title = TextEditingController();

final subtitle = TextEditingController();

FocusNode \_focusNode1 = FocusNode(); FocusNode \_focusNode2 = FocusNode(); int indexx = 0;

@override

Widget build(BuildContext context) { return Scaffold(

backgroundColor: backgroundColors, body: SafeArea(

child: Column(

mainAxisAlignment: MainAxisAlignment.center, children: [

title\_widgets(), SizedBox(height: 20), subtite\_wedgite(), SizedBox(height: 20), imagess(), SizedBox(height: 20), button()

],

),

),

);

}

Widget button() { return Row(

mainAxisAlignment: MainAxisAlignment.spaceAround, children: [

ElevatedButton(

style: ElevatedButton.styleFrom( primary: custom\_green, minimumSize: Size(170, 48),

),

onPressed: () {

Firestore\_Datasource().AddNote(subtitle.text, title.text, indexx); Navigator.pop(context);

},

child: Text('add task'),

),

ElevatedButton(

style: ElevatedButton.styleFrom( primary: Colors.red, minimumSize: Size(170, 48),

),

onPressed: () { Navigator.pop(context);

},

child: Text('Cancel'),

),

],

);

}

Container imagess() { return Container( height: 180,

child: ListView.builder(

itemCount: 4,

scrollDirection: Axis.horizontal, itemBuilder: (context, index) { return GestureDetector(

onTap: () {

setState(() { indexx = index;

});

},

child: Padding(

padding: EdgeInsets.only(left: index == 0 ? 7 : 0), child: Container(

decoration: BoxDecoration( borderRadius: BorderRadius.circular(10), border: Border.all(

width: 2,

color: indexx == index ? custom\_green : Colors.grey,

),

),

width: 140,

margin: EdgeInsets.all(8), child: Column(

children: [ Image.asset('images/${index}.png'),

],

),

),

),

);

},

),

);

}

Widget title\_widgets() { return Padding(

padding: const EdgeInsets.symmetric(horizontal: 15),

child: Container( decoration: BoxDecoration( color: Colors.white,

borderRadius: BorderRadius.circular(15),

),

child: TextField( controller: title,

focusNode: \_focusNode1,

style: TextStyle(fontSize: 18, color: Colors.black), decoration: InputDecoration(

contentPadding:

EdgeInsets.symmetric(horizontal: 15, vertical: 15), hintText: 'title',

enabledBorder: OutlineInputBorder( borderRadius: BorderRadius.circular(10), borderSide: BorderSide(

color: Color(0xffc5c5c5), width: 2.0,

),

),

focusedBorder: OutlineInputBorder( borderRadius: BorderRadius.circular(10), borderSide: BorderSide(

color: custom\_green, width: 2.0,

),

)),

),

),

);

}

Padding subtite\_wedgite() { return Padding(

padding: const EdgeInsets.symmetric(horizontal: 15), child: Container(

decoration: BoxDecoration(

color: Colors.white,

borderRadius: BorderRadius.circular(15),

),

child: TextField( maxLines: 3, controller: subtitle,

focusNode: \_focusNode2,

style: TextStyle(fontSize: 18, color: Colors.black), decoration: InputDecoration(

contentPadding: EdgeInsets.symmetric(horizontal: 15, vertical: 15), hintText: 'subtitle',

enabledBorder: OutlineInputBorder( borderRadius: BorderRadius.circular(10), borderSide: BorderSide(

color: Color(0xffc5c5c5), width: 2.0,

),

),

focusedBorder: OutlineInputBorder( borderRadius: BorderRadius.circular(10), borderSide: BorderSide(

color: custom\_green, width: 2.0,

),

),

),

),

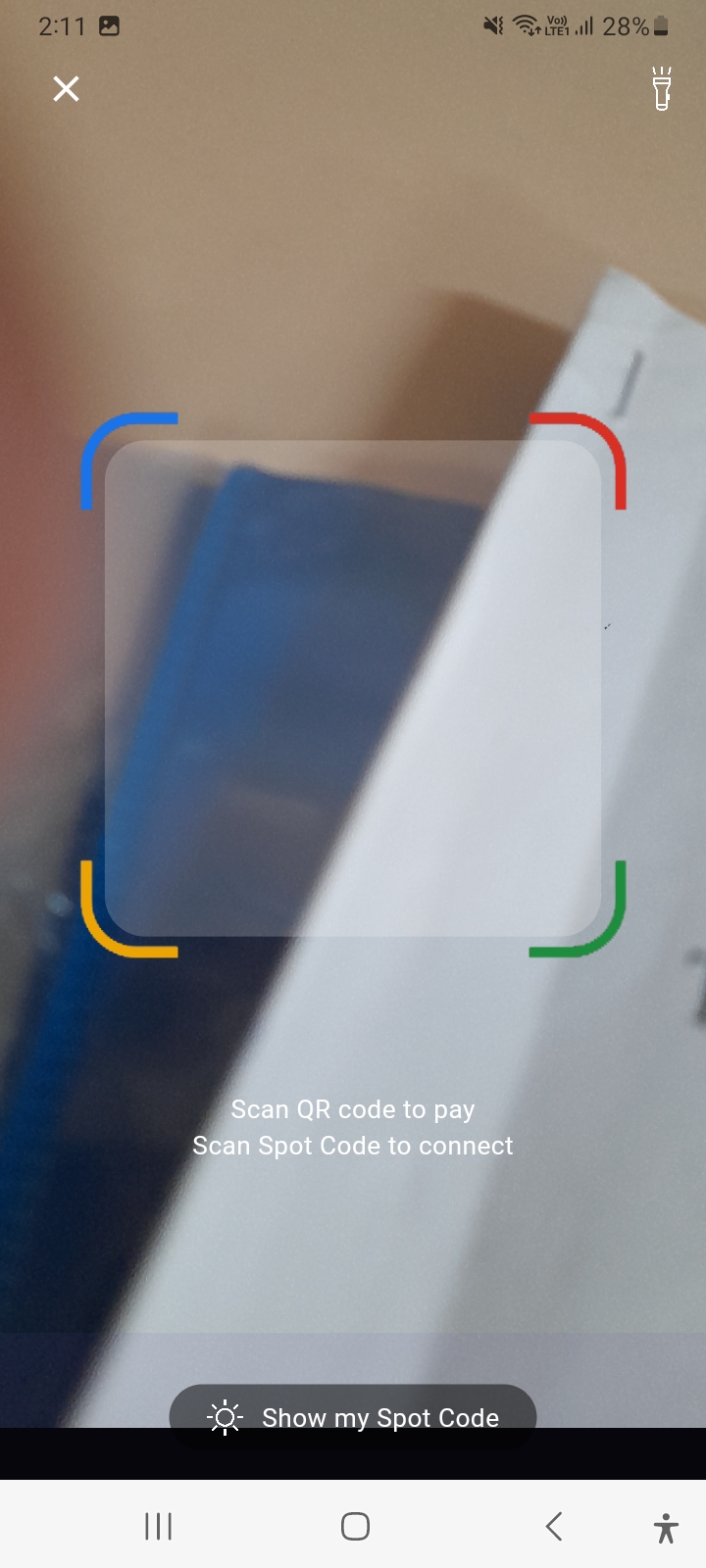
),

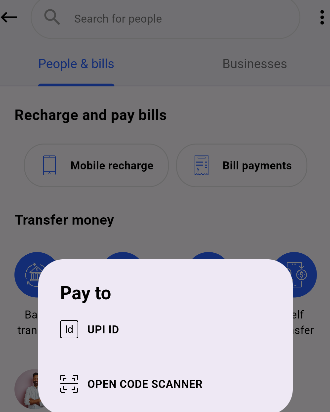
);

}

}

**Output :-**

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