

Name: Vidhi Gulhane

Roll No: 15

Class: D15B

Experiment No: 02

Aim: To Design Flutter UI by Including Common Widgets

Theory:

Flutter is an open-source UI software development kit (SDK) created by Google, used to develop applications for mobile, web, and desktop from a single codebase. It provides a wide range of widgets that help in building flexible and visually appealing UIs.

Common Flutter widgets include:

1. Scaffold – Provides the basic structure of an app, including an AppBar, FloatingActionButton, and a body.
2. Container – A versatile widget for designing UI components with padding, margin, color, and decoration properties.
3. Row and Column – Used to arrange widgets horizontally and vertically, respectively.
4. ListView – A scrolling widget used to display a list of items dynamically.
5. Text and TextStyle – Used for displaying and styling text in the application.
6. Image – Displays images from assets, network, or memory.
7. ElevatedButton – A material design button that responds to user interaction.
8. Navigator – Helps in navigating between different screens in the application.

Code:

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

import 'package:google_fonts/google_fonts.dart';

import 'home_screen.dart';

class GetStartedScreen extends StatelessWidget {

  const GetStartedScreen({super.key});

  @override

  Widget build(BuildContext context) {

    return Scaffold(

      body: Stack(

        children: [
```

```
// Light Orange Background

Container(

  decoration: BoxDecoration(

    color: const Color.fromARGB(255, 255, 221, 153), // Light Orange

  ),

),

// Foreground Content

Column(

  mainAxisAlignment: MainAxisAlignment.center,

  children: [

    // Back Button

    Align(

      alignment: Alignment.topLeft,

      child: Padding(

        padding: EdgeInsets.only(top: 50, left: 10),

        child: IconButton(

          icon: Icon(Icons.arrow_back, size: 30, color: Colors.black),

          onPressed: () {

            Navigator.pop(

              context,

            ); // Navigate back to the previous screen),),),),

          ),

        ),

      ),

    Spacer(),

    // App Logo

    CircleAvatar(

      radius: 70,

      backgroundColor: Colors.white,
```

```
child: Padding(
padding: EdgeInsets.all(10),
child: Image.asset('lib/assets/logo.png', width: 100),
),
),
 SizedBox(height: 30),
// Welcome Text
Text(
"Welcome to Vidhi's Recipe App",
textAlign: TextAlign.center,
style: GoogleFonts.pacifico(
fontSize: 28,
fontWeight: FontWeight.bold,
color: Colors.black,
),
),
 SizedBox(height: 15),
// Short Intro Text
Padding(
padding: EdgeInsets.symmetric(horizontal: 25),
child: Text(
"Discover, create, and enjoy delicious recipes from around the world! Join now and start your culinary journey.",
textAlign: TextAlign.center,
style: GoogleFonts.roboto(
fontSize: 16,
```

```

color: Colors.black87,),),),),
    SizedBox(height: 30),
    // Login Button
    SizedBox(
      width: MediaQuery.of(context).size.width * 0.8,
      child: ElevatedButton.icon(
        onPressed: () {
          // Navigate to Login Screen (Implement separately)
        },
        icon: Icon(Icons.login, color: Colors.white),
        label: Text(
          "Login",
          style: GoogleFonts.roboto(
            fontSize: 18,
            color: Colors.white,
          ),
        ),
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.black,
          padding: EdgeInsets.symmetric(vertical: 15),
          shape: RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(30),),),),),),
        SizedBox(height: 10),
        // Sign Up Button
        SizedBox(
          width: MediaQuery.of(context).size.width * 0.8,

```

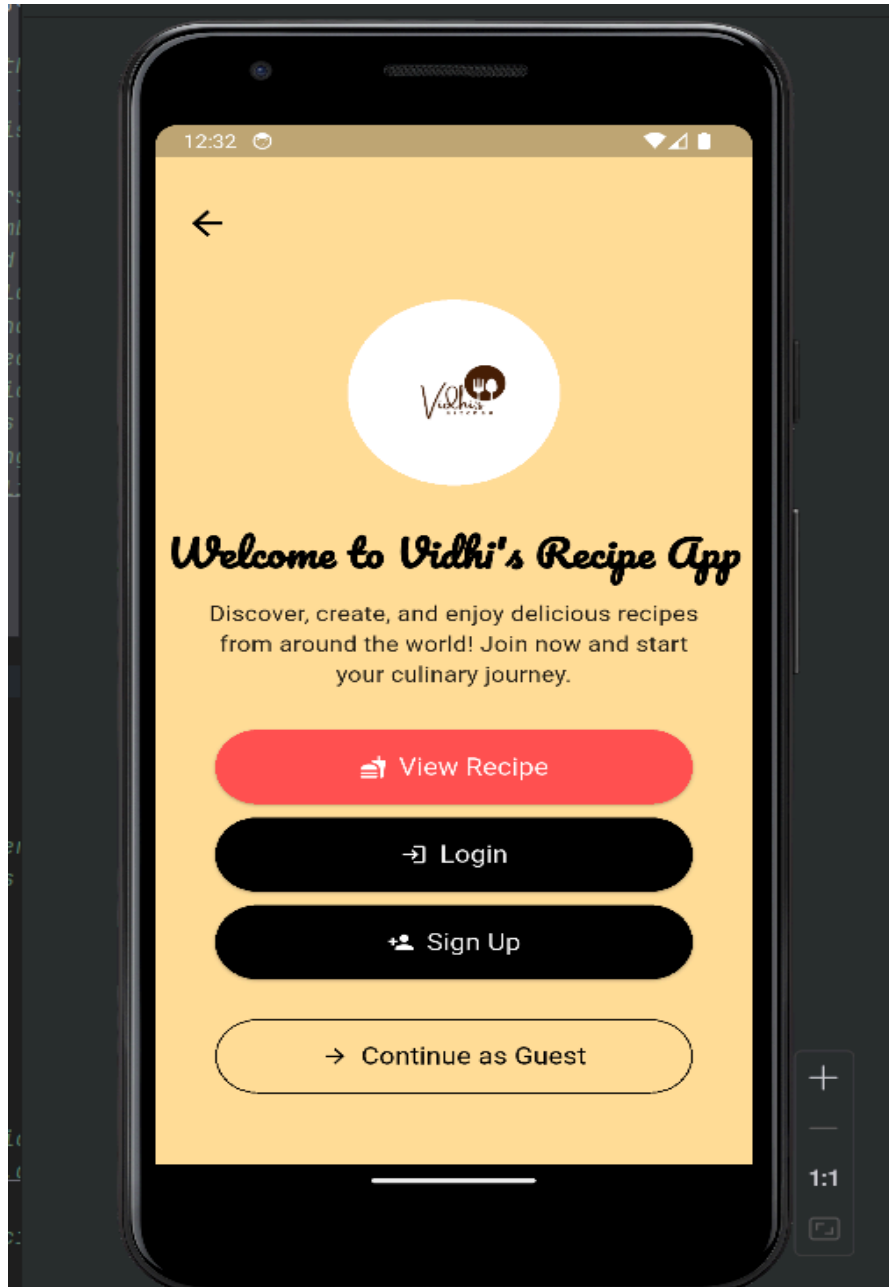
```

child: ElevatedButton.icon(
  onPressed: () {
    // Navigate to Sign Up Screen
  },
  icon: Icon(Icons.person_add, color: Colors.white),
  label: Text(
    "Sign Up",
    style: GoogleFonts.roboto(
      fontSize: 18,
      color: Colors.white,
    ),
  ),
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.black,
    padding: EdgeInsets.symmetric(vertical: 15),
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(30),
    ),
    SizedBox(height: 30),
  ),
  // Get Started Button (Guest Mode)
  SizedBox(
    width: MediaQuery.of(context).size.width * 0.8,
    child: OutlinedButton.icon(
      onPressed: () {
        Navigator.pushReplacement(
          context,
          MaterialPageRoute(builder: (context) => HomeScreen()),

```

```
);  
},  
icon: Icon(Icons.arrow_forward, color: Colors.black),  
label: Text(  
  "Continue as Guest",  
  style: GoogleFonts.roboto(  
    fontSize: 18,  
    color: Colors.black,  
  ),  
,  
  style: OutlinedButton.styleFrom(  
    side: BorderSide(color: Colors.black),  
    padding: EdgeInsets.symmetric(vertical: 15),  
    shape: RoundedRectangleBorder(  
      borderRadius: BorderRadius.circular(30),),),),  
  Spacer(),  
  SizedBox(height: 20),),),);}}
```

Output:



Conclusion:

In this experiment, we successfully designed a Flutter UI using various commonly used widgets. By utilizing Scaffold, Container, Row, Column, ListView, and ElevatedButton, we were able to create a structured and interactive layout. This experiment demonstrates the flexibility and efficiency of Flutter in UI design, making it an ideal framework for developing modern cross-platform applications.

