

MAD PWA LAB 2

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Batch : C

Class : D15A

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Aim: To design simple flutter UI by including common widgets.

Theory:

Common Widgets used are:

Scaffold: Represents the basic material design visual structure. It provides functionality like the AppBar, Drawer, BottomNavigationBar, and body of the app.

AppBar: Represents the top app bar that usually contains the app's title and actions.

Padding: Adds padding around its child widget.

Container: A box model that can contain other widgets and provides styling properties.

Positioned: Positions a child within a stack relative to the top-left corner.

Text: Displays a paragraph of text with various styling options.

TextField: Allows the user to enter text.

Column: A widget that displays its children in a vertical array.

Row: A widget that displays its children in a horizontal array.

Image.asset: Loads an image from an asset bundle.

GestureDetector: A widget that detects gestures.

BottomNavigationBar: A material design widget that displays a horizontal row of three to five icons and labels at the bottom of the screen.`import 'package:flutter/material.dart';`

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

```
class User {  
  String name;  
  String email;  
  String address;  
  User({required this.name, required this.email, required this.address});  
}
```

```
class UserInfoPage extends StatefulWidget {  
  @override  
  _UserInfoPageState createState() => _UserInfoPageState();  
}
```

```
class _UserInfoPageState extends State<UserInfoPage> {  
  late User _user;  
  
  @override
```

```

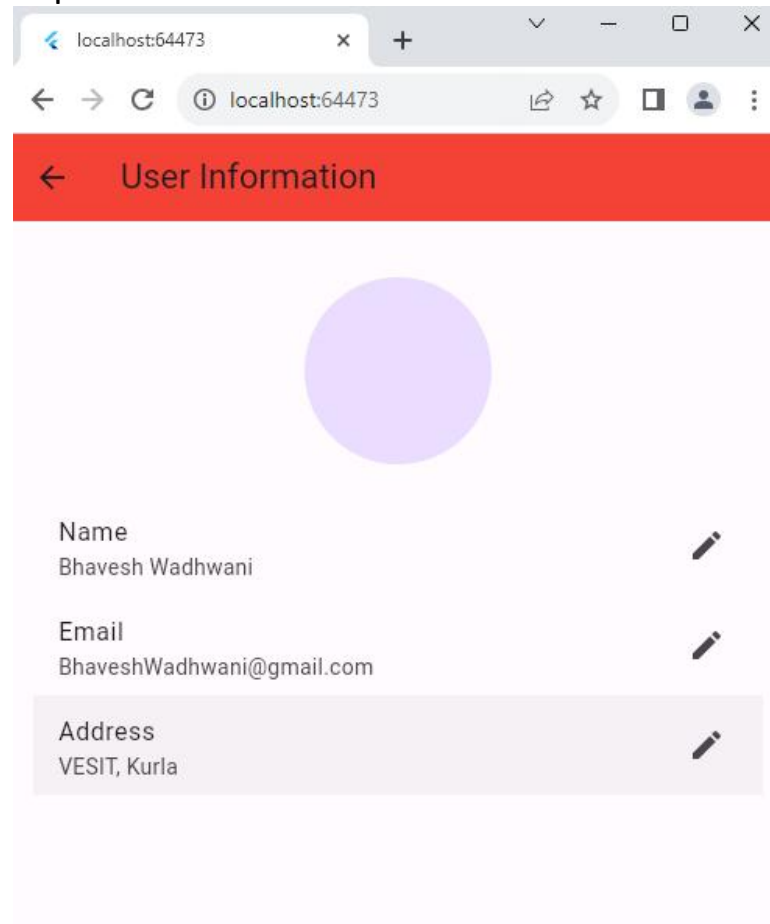
void initState() {
  super.initState();
  _user = User(
    name: "Bhavesh Wadhwani",
    email: "BhaveshWadhwani@gmail.com",
    address: "VESIT, Kurla");
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      backgroundColor: Colors.red,
      title: Text("User Information"),
    ),
    body: SingleChildScrollView(
      padding: EdgeInsets.all(16.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.stretch,
        children: [
          SizedBox(height: 20.0),
          CircleAvatar(
            radius: 60,
            backgroundImage: AssetImage('assets/comp.png'),
          ),
          SizedBox(height: 20.0),
          ListTile(
            title: Text("Name"),
            subtitle: Text(_user.name),
            trailing: Icon(Icons.edit),
            onTap: () {
              // Add functionality to edit name
            },
          ),
          ListTile(
            title: Text("Email"),
            subtitle: Text(_user.email),
            trailing: Icon(Icons.edit),
            onTap: () {
              // Add functionality to edit email
            },
          ),
          ListTile(
            title: Text("Address"),
            subtitle: Text(_user.address),
            trailing: Icon(Icons.edit),
            onTap: () {
              // Add functionality to edit address
            },
          ),
        ],
      ),
    ),
  );
}

```

```
void main() {  
  runApp(MaterialApp(  
    home: UserInfoPage(),  
    theme: ThemeData(  
      primaryColor: Colors.red,  
      hintColor: Colors.yellow,  
    ),  
  ));  
}
```

Output:



Conclusion:

To design simple flutter UI by including common widgets.