MAD and PWA Lab

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Aim: To design Flutter UI by including common widgets.

Theory:

We can split the Flutter widget into two categories:

- 1. Visible (Output and Input)
- 2. Invisible (Layout and Control)

1. Visible widget

The visible widgets are related to the user input and output data. Some of the important types of this widget are:

1. Text

A Text widget holds some text to display on the screen. We can align the text widget by using textAlign property, and style property allow the customization of Text that includes font, font weight, font style, letter spacing, color, and many more.

2. Button

This widget allows you to perform some action on click. Flutter does not allow

you to use the Button widget directly; instead, it uses a type of buttons like a FlatButton and a RaisedButton.

3. Image

This widget holds the image which can fetch it from multiple sources like from the asset folder or directly from the URL. It provides many constructors for loading image, which are given below: o Image: It is a generic image loader, which is used by ImageProvider. o asset: It load image from your project asset folder. o file: It loads images from the system folder.

o memory: It load image from memory. o

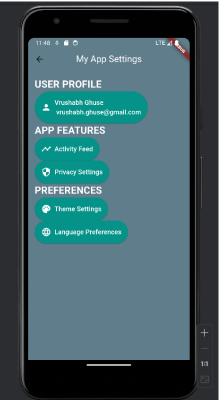
network: It loads images from the network.

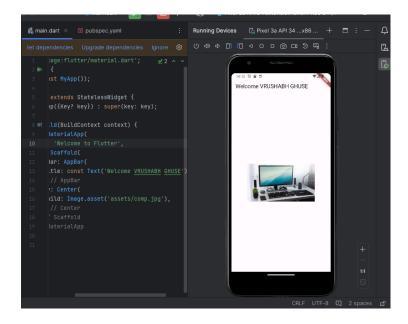
Code:

```
A 12
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
 home: MyScreen(),
class MyScreen extends StatelessWidget {
const MyScreen({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
    return Scaffold(
     backgroundColor: Colors.blueGrey,
     — appBar: AppBar(
       centerTitle: true,
      backgroundColor: Colors.blueGrey,
      — leading: IconButton(onPressed: () => Navigator.pop(context), icon: <u>Icon(Icons.arrow_back)</u>),
     title: Text("My App Settings", style: TextStyle(color: Colors.white)),
     -body: SafeArea(
         padding: EdgeInsets.all(16),
         child: SingleChildScrollView(
```

```
-child: Column(
-crossAxisAlignment: CrossAxisAlignment.start,|
-children: [
-__buildSectionHeader("USER PROFILE"),
-__buildSectionHeader("User PROFILE"),
-__buildSectionHeader("Pape Frankers"),
-__buildSectionHeader("Istings", Icons.security, "Privacy Settings"),
-__buildSectionHeader("Istings", Icons.polette, "Theme Settings"),
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Output:





Conclusion:

Flutter's widget architecture offers great flexibility for building complex UIs. Understanding key widgets and concepts is essential for effective Flutter development.