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## **Lab - 03**

**Aim:** - To include icons ,images, fonts in Flutter app

### **Theory:**

Flutter is a UI toolkit developed by Google for building natively compiled applications for mobile, web, and desktop from a single codebase. YAML (YAML Ain't Markup Language) is a human-readable data serialization format often used for configuration files in Flutter projects.

Certainly! Flutter is a UI toolkit developed by Google for building natively compiled applications for mobile, web, and desktop from a single codebase. YAML (YAML Ain't Markup Language) is a human-readable data serialization format often used for configuration files in Flutter projects.

Below, I'll provide a basic example of a Flutter app that includes YAML configuration for image insertion. Let's create a simple Flutter app that displays an image using YAML for configuration.

We can split the Flutter widget into two categories:

Visible (Output and Input)

Invisible (Layout and Control)

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. We can use it as like below code snippets.

```
new Text(  
'Hello, ALL!',  
textAlign: TextAlign.center,  
style: new TextStyle(fontWeight: FontWeight.bold),  
)
```

#### 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. We can use it as like below code snippets

```
//FlatButton Example
new FlatButton(
  child: Text("Click here"),
  onPressed: () {
    // Do something here
  },
),
```

```
//RaisedButton Example
new RaisedButton(
  child: Text("Click here"),
  elevation: 5.0,
  onPressed: () {
    // Do something here
  },
),
```

### 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.

To add an image in the project, you need first to create an assets folder where you keep your images and then add the below line in pubspec.yaml file.

#### **Code:-**

```
import 'package:flutter/material.dart';
import 'package:flutter_application_1/widget/widget_support.dart';

class Home extends StatefulWidget {
  const Home({super.key});

  @override
  State<Home> createState() => _HomeState();
}
```

```
}
```

```
class _HomeState extends State<Home> {  
  bool icecream = false, pizza = false, salad = false, burger = false;  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      body: Container(  
        margin: EdgeInsets.only(top: 50.0, left: 20.0),  
        child: Column(crossAxisAlignment: CrossAxisAlignment.start, children: [  
          Row(  
            mainAxisAlignment: MainAxisAlignment.spaceBetween,  
            children: [  
              Text("Hello Sufiyan,", style: AppWidget.boldTextFeildStyle()),  
              Container(  
                padding: EdgeInsets.all(3),  
                decoration: BoxDecoration(color: Colors.black),  
                child: Icon(  
                  Icons.shopping_cart_outlined,  
                  color: Colors.white,  
                ),  
              ),  
            ],  
          ),  
          SizedBox(height: 30.0),  
          Text("Delicious Food", style: AppWidget.HeadlineTextFeildStyle()),  
          Text(  
            "Discover and get great food",  
            style: AppWidget.LightTextFeildStyle(),  
          ),  
          SizedBox(  
            height: 20.0,  
          ),  
          showItem(),  
          SizedBox(height: 30.0),  
          SingleChildScrollView(  
            scrollDirection: Axis.horizontal,  
            child: Row(  
              // crossAxisAlignment: CrossAxisAlignment.start,  
              children: [  
                Container(  
                  margin: EdgeInsets.all(10),  
                  child: Material(  

```

```

    elevation: 5.0,
    borderRadius: BorderRadius.circular(10),
    child: Container(
      padding: EdgeInsets.all(10),
      child: Column(children: [
        Image.asset(
          "images/salad2.png",
          height: 160,
          width: 160,
          fit: BoxFit.cover,
        ),
        Text("Veggie Taco Hash",
          style: AppWidget.boldTextFeildStyle()),
        SizedBox(
          height: 5.0,
        ),
        Text("Healthy and Fresh",
          style: AppWidget.LightTextFeildStyle()),
        SizedBox(
          height: 5.0,
        ),
        Text("\$30", style: AppWidget.boldTextFeildStyle()),
      ]),
    )),
  ),
  SizedBox(width: 10.0),
  Container(
    margin: EdgeInsets.all(10),
    child: Material(
      elevation: 5.0,
      borderRadius: BorderRadius.circular(10),
      child: Container(
        padding: EdgeInsets.all(10),
        child: Column(children: [
          Image.asset(
            "images/salad2.png",
            height: 160,
            width: 160,
            fit: BoxFit.cover,
          ),
          Text("Veggie Taco Hash",
            style: AppWidget.boldTextFeildStyle()),
          SizedBox(
            height: 5.0,

```

```

    ),
    Text("Healthy and Fresh",
        style: AppWidget.LightTextFeildStyle()),
    SizedBox(
        height: 5.0,
    ),
    Text("\$30", style: AppWidget.boldTextFeildStyle()),
  ]),
)),
),
SizedBox(width: 10),
Container(
  margin: EdgeInsets.all(10),
  child: Material(
    elevation: 5.0,
    borderRadius: BorderRadius.circular(10),
    child: Container(
      padding: EdgeInsets.all(10),
      child: Column(children: [
        Image.asset(
          "images/salad2.png",
          height: 160,
          width: 160,
          fit: BoxFit.cover,
        ),
        Text("Veggie Taco Hash",
            style: AppWidget.boldTextFeildStyle()),
        SizedBox(
            height: 5.0,
        ),
        Text("Healthy and Fresh",
            style: AppWidget.LightTextFeildStyle()),
        SizedBox(
            height: 5.0,
        ),
        Text("\$30", style: AppWidget.boldTextFeildStyle()),
      ]),
    ),
  ),
),
SizedBox(
  height: 30.0,
),

```

```

Container(
  margin: EdgeInsets.only(right: 5.0),
  child: Material(
    elevation: 5.0,
    borderRadius: BorderRadius.circular(20),
    child: Row(children: [
      Image.asset("images/salad3.png",
        height: 160, width: 160, fit: BoxFit.cover),
      SizedBox(width: 7.0),
      Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Container(
            width: MediaQuery.of(context).size.width / 2,
            child: Text(
              "Mediterranean chickpea Salad",
              style: AppWidget.boldTextFeildStyle(),
            )),
          SizedBox(
            height: 5.0,
          ),
          Container(
            width: MediaQuery.of(context).size.width / 2,
            child: Text(
              "Honey goot cheese",
              style: AppWidget.LightTextFeildStyle(),
            )),
          SizedBox(
            height: 5.0,
          ),
          Container(
            width: MediaQuery.of(context).size.width / 2,
            child: Text(
              "$26",
              style: AppWidget.LightTextFeildStyle(),
            ))
        ],
      ),
    ]),
  ),
);
}

```

```

Widget showItem() {
  return Row(
    mainAxisAlignment: MainAxisAlignment.spaceBetween,
    children: [
      GestureDetector(
        onTap: () {
          icecream = true;
          pizza = false;
          salad = false;
          burger = false;
          setState(() {});
        },
        child: Material(
          elevation: 5.0,
          borderRadius: BorderRadius.circular(10),
          child: Container(
            decoration: BoxDecoration(
              color: icecream ? Colors.black : Colors.white,
              borderRadius: BorderRadius.circular(10)),
            padding: EdgeInsets.all(8),
            child: Image.asset("images/ice-cream.png",
              height: 50,
              width: 40,
              fit: BoxFit.cover,
              color: icecream ? Colors.white : Colors.black))),
      GestureDetector(
        onTap: () {
          icecream = false;
          pizza = false;
          salad = false;
          burger = true;
          setState(() {});
        },
        child: Material(
          elevation: 5.0,
          borderRadius: BorderRadius.circular(10),
          child: Container(
            decoration: BoxDecoration(
              color: burger ? Colors.black : Colors.white,
              borderRadius: BorderRadius.circular(10)),
            padding: EdgeInsets.all(8),
            child: Image.asset("images/burger.png",
              height: 50,

```

```

        width: 40,
        fit: BoxFit.cover,
        color: burger ? Colors.white : Colors.black)))),
GestureDetector(
  onTap: () {
    icecream = false;
    pizza = true;
    salad = false;
    burger = false;
    setState(() {});
  },
  child: Material(
    elevation: 5.0,
    borderRadius: BorderRadius.circular(10),
    child: Container(
      decoration: BoxDecoration(
        color: pizza ? Colors.black : Colors.white,
        borderRadius: BorderRadius.circular(10)),
      padding: EdgeInsets.all(8),
      child: Image.asset("images/pizza.png",
        height: 50,
        width: 40,
        fit: BoxFit.cover,
        color: pizza ? Colors.white : Colors.black)))),
GestureDetector(
  onTap: () {
    icecream = false;
    pizza = false;
    salad = true;
    burger = false;
    setState(() {});
  },
  child: Material(
    elevation: 5.0,
    borderRadius: BorderRadius.circular(10),
    child: Container(
      decoration: BoxDecoration(
        color: salad ? Colors.black : Colors.white,
        borderRadius: BorderRadius.circular(10)),
      padding: EdgeInsets.all(8),
      child: Image.asset("images/salad.png",
        height: 50,
        width: 40,
        fit: BoxFit.cover,

```



```
        color: salad ? Colors.white : Colors.black)))),  
    ],  
  );  
}  
}
```

**Output:-**

3:50



Hello Sufiyan,



## Delicious Food

Discover and get great food



### Veggie Taco Hash

Healthy and Fresh

\$30



### Veggie Taco

Healthy and

\$30



### Mediterranean chickpea Salad

Honey goat cheese

\$26

