

Experiment 03

Aim:- To include icons, images, fonts in flutter app.

Theory:-

• What are flutter icons?

→ An icon is a graphic image representing an application or any specific entity containing meaning for the user. It can be selectable and non-selectable. For example, the company's logo is non-selectable. Sometimes it also contains a hyperlink to go to another page.

Flutter provides an Icon widget to create icons in our applications. We can create icons in Flutter, either using inbuilt icons or with the custom icons. Flutter provides the list of all icons in the Icons class. Flutter Icon widget has different properties for customizing the icons. Few of the properties are:-

- color
- size
- text direction.

• What are Flutter images?

→ The Flutter supports many image formats, such as JPEG, webP, PNG, GIF, BMP and WBMP. Displaying images is the fundamental concept of most of the mobile apps. Flutter has an Image widget that allows displaying different types of images in mobile application.

Syntax:

Image.asset ("image name")

- What are the fonts used in Flutter?
- Roboto and San Francisco are the default font family for Android and iOS respectively.

If we want custom font then,

1. Add the font files to your project's asset directory
2. In your pubspec.yaml file, add the following under "flutter:" section:

flutter:

assets:

- assets/fonts/myFont.ttf

3. In your Dart code, you can then use the font by specifying the font family

TextStyle (fontFamily: 'MyFont').

Code -

1. items_details_screen.dart

```
import 'package:cart_stepper/cart_stepper.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:flutter/material.dart';
import 'package:fluttertoast/fluttertoast.dart';
import 'package:users_app/assistentMethods/cart_methods.dart';
import 'package:users_app/widgets/appbar_cart_badge.dart';

import '../global/global.dart';
import '../models/items.dart';

class ItemsDetailsScreen extends StatefulWidget {
  Items? model;

  ItemsDetailsScreen({
    this.model,
  });

  @override
  State<ItemsDetailsScreen> createState() => _ItemsDetailsScreenState();
}

class _ItemsDetailsScreenState extends State<ItemsDetailsScreen> {
  int counterLimit = 1;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.black,
      appBar: AppBarWithCartBadge(
        sellerUID: widget.model!.sellerUID.toString(),
      ),
      floatingActionButton: FloatingActionButton.extended(
```

```

onPressed: () {
  int itemCounter = counterLimit;

  List<String> itemsIDsList =
    cartMethods.separateItemIDsFromUserCartList();

  //1. check if item exist already in cart
  if (itemsIDsList.contains(widget.model!.itemID)) {
    Fluttertoast.showToast(msg: "Item is already in Cart.");
  } else {
    //2. add item in cart
    cartMethods.addItemToCart(
      widget.model!.itemID.toString(),
      itemCounter,
      context,
    );
  }
},
label: const Text("Add to Cart"),
icon: const Icon(
  Icons.add_shopping_cart_rounded,
  color: Colors.white,
),
backgroundColor: Colors.pinkAccent,
),
body: SingleChildScrollView(
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      Image.network(
        widget.model!.thumbnailUrl.toString(),
      ),

      //implement the item counter
      Padding(

```

```
padding: const EdgeInsets.all(8.0),
child: Center(
  child: CartStepperInt(
    style: const CartStepperStyle(
      activeBackgroundColor: Colors.pinkAccent),
    value: counterLimit,
    didChangeCount: (value) {
      if (value < 1) {
        Fluttertoast.showToast(
          msg: 'The quantity cannot be less than 1');
        return;
      }
      setState(() {
        counterLimit = value;
      });
    },
  ),
),
),
```

```
Padding(
  padding: const EdgeInsets.only(left: 8.0, top: 8.0),
  child: Text(
    widget.model!.itemTitle.toString() + ":",
    textAlign: TextAlign.justify,
    style: const TextStyle(
      fontWeight: FontWeight.bold,
      fontSize: 20,
      color: Colors.pinkAccent,
    ),
  ),
),
```

```
Padding(
  padding: const EdgeInsets.only(left: 8.0, right: 8.0, top: 6.0),
```

```
child: Text(  
  widget.model!.longDescription.toString(),  
  textAlign: TextAlign.justify,  
  style: const TextStyle(  
    fontWeight: FontWeight.normal,  
    color: Colors.grey,  
    fontSize: 15,  
  ),  
),  
),  
),
```

```
Padding(  
  padding: const EdgeInsets.all(10.0),  
  child: Text(  
    widget.model!.price.toString() + " KM",  
    textAlign: TextAlign.justify,  
    style: const TextStyle(  
      fontWeight: FontWeight.bold,  
      fontSize: 30,  
      color: Colors.pink,  
    ),  
  ),  
),  
),
```

```
const Padding(  
  padding: EdgeInsets.only(left: 8.0, right: 320.0),  
  child: Divider(  
    height: 1,  
    thickness: 2,  
    color: Colors.pinkAccent,  
  ),  
),
```

```
const SizedBox(  
  height: 30,
```

```
    ),  
    ],  
  ),  
),  
);  
}  
}
```

2. pubsec.yaml

name: users_app
description: A new Flutter project.

publish_to: "none"

version: 1.0.0+1

environment:

sdk: ">=2.18.2 <3.0.0"

dependencies:

carousel_slider: ^4.1.1

cart_stepper: ^3.0.2

cloud_firestore: ^4.0.4

cupertino_icons: ^1.0.2

firebase_auth: ^4.1.1

firebase_core: ^2.1.1

firebase_messaging: ^14.0.4

firebase_storage: ^11.0.4

flutter:

sdk: flutter

flutter_staggered_grid_view: ^0.4.1

fluttertoast: ^8.1.1

http: ^0.13.5

```
image_picker: ^0.8.6
intl: null
provider: ^6.0.4
shared_preferences: ^2.0.15
smooth_star_rating_nsafe: ^1.0.0+1
dev_dependencies:
  flutter_lints: ^2.0.0
  flutter_test:
    sdk: flutter
```

```
flutter:
  uses-material-design: true
```

```
assets:
  - images/
  - slider/
```


Output Screen -

