Project Title: Myntra Roll No. 38

MAD & PWA Lab Journal

Experiment No.	03
Experiment Title.	To include icons, images, fonts in Flutter app
Roll No.	38
Name	Snehal Patil
Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO2: Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation
Grade:	

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

Theory:

Using Icons in Flutter

Icons in Flutter can be added using the built-in Material Icons or custom icon packs.

(a) Material Icons

Flutter provides a collection of built-in Material Icons, which can be used with the Icon widget.

Eg: Icon(Icons.home, size: 30, color: Colors.blue)

(b) Custom Icons

If you need icons that are not available in the Material Icons set, you can use external icon packs like:

- Font Awesome (font_awesome_flutter package)
- Custom SVG Icons (flutter_svg package)

Eg in pubspec.yaml file -

dependencies:

font_awesome_flutter: ^10.5.0

In code -

import 'package:font_awesome_flutter/font_awesome_flutter.dart';

```
lconButton(
  icon: Falcon(FontAwesomelcons.heart, color: Colors.red),
  onPressed: () {},
)
```

Adding Images in Flutter

Images can be loaded in Flutter from different sources like assets, network, or memory.

(a) Using Network Images

Network images are loaded from an online URL. Example:

Eg: Image:network("https://example.com/sample.jpg", width: 200, height: 150)

(b) Using Asset Images

To use images from the local project folder (assets/), follow these steps:

- 1. Place the image inside the assets/images/ folder.
- 2. Declare the image in pubspec.yaml:

flutter:

assets:

- assets/images/sample.png

In code: Image.asset("assets/images/sample.png", width: 200, height: 150)

Adding Custom Fonts in Flutter

Custom fonts improve the visual identity of an app. Steps to

Add a Custom Font:

- 1. Download the font and place it inside the assets/fonts/ folder.
- 2. Declare the font in pubspec.yaml:

```
flutter:
```

fonts:

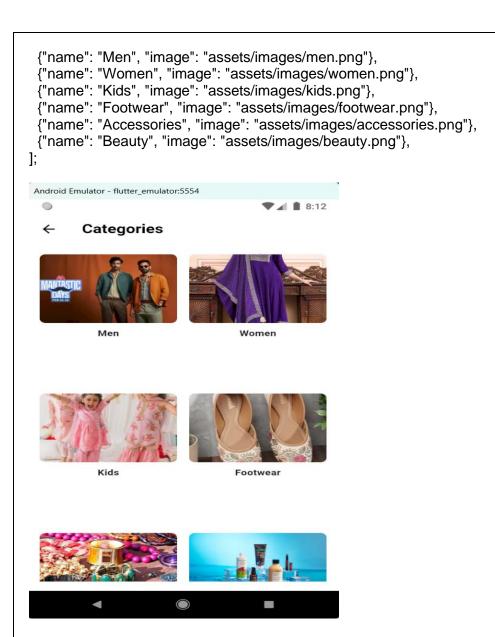
- family: CustomFont fonts:
 - asset: assets/fonts/CustomFont-Regular.ttf
 - asset: assets/fonts/CustomFont-Bold.ttf weight: 700

In Code:

```
(
"Hello, Flutter!",
style: TextStyle(fontFamily: "CustomFont", fontSize: 20, fontWeight: FontWeight.bold),
)
```

Categories Page:

```
import 'package:flutter/material.dart';
                                                                 crossAxisSpacing: 16,
                                                                 mainAxisSpacing: 16,
class CategoriesPage extends StatelessWidget {
                                                                 childAspectRatio: 0.8,
 @override
 Widget build(BuildContext context) {
                                                                itemCount: categories.length,
  return Scaffold(
                                                                itemBuilder: (context, index) {
   backgroundColor: Colors.white,
                                                                 return _buildCategoryTile(
   appBar: AppBar(
                                                                   categories[index]['name']!,
     backgroundColor: Colors.white,
                                                                   categories[index]['image']!,
     elevation: 0.
     title: Text(
      "Categories",
      style: TextStyle(
       fontWeight: FontWeight.bold,
                                                            );
       color: Colors.black,
      ),
                                                           Widget _buildCategoryTile(String name, String
     leading: IconButton(
                                                          imagePath) {
      icon: lcon(lcons.arrow_back, color:
                                                            return GestureDetector(
Colors.black),
                                                              onTap: () {
      onPressed: () {
                                                               print("$name category clicked");
       Navigator.pop(context);
                                                              child: Column(
      },
                                                               crossAxisAlignment:
     ),
                                                          CrossAxisAlignment.center,
   body: Padding(
                                                               children: [
     padding: const EdgeInsets.all(16.0),
                                                                ClipRRect(
     child: GridView.builder(
                                                                  borderRadius: BorderRadius.circular(8),
      gridDelegate:
                                                                  child: Image.asset(
SliverGridDelegateWithFixedCrossAxisCount(
                                                                   imagePath,
       crossAxisCount: 2,
                                                                   height: 120,
        width: double.infinity,
        fit: BoxFit.cover,
         errorBuilder: (context, error, stackTrace) {
          return Container(
           height: 120,
           width: double.infinity,
           color: Colors.grey[300],
           child: Icon(Icons.image, size: 50, color: Colors.grey[600]),
          );
        },
       ),
      SizedBox(height: 8),
      Text(
       name.
       style: TextStyle(
        fontWeight: FontWeight.bold,
// Category List with Names and Image Paths
final List<Map<String, String>> categories = [
```



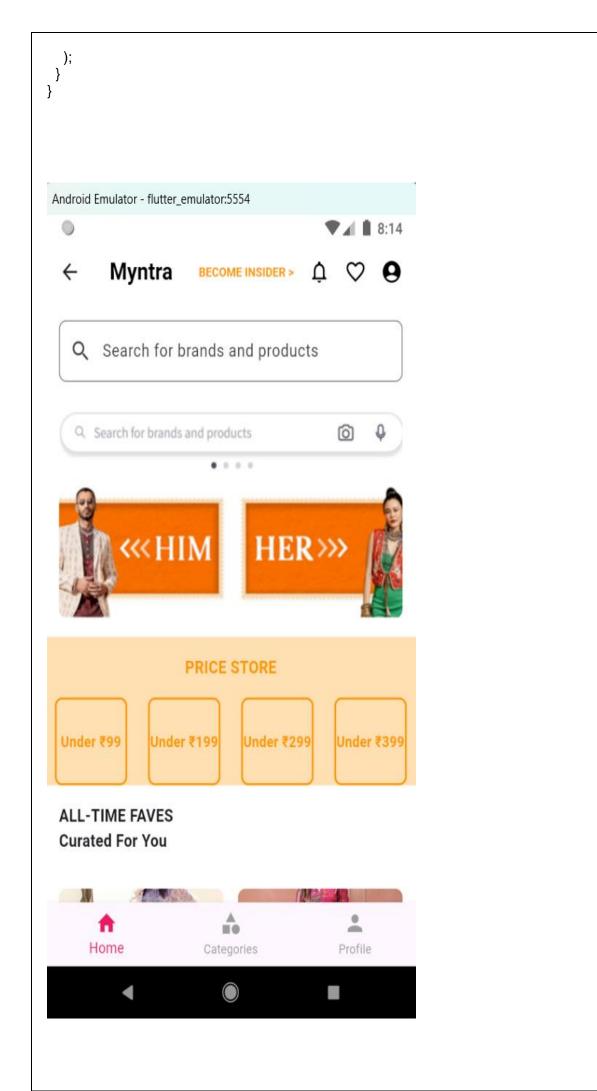
Home Page:

```
import 'package:flutter/material.dart';
class HomePage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   backgroundColor: Colors.white,
   appBar: AppBar(
    backgroundColor: Colors.white,
    elevation: 0,
    title: Row(
      children: [
       Text(
        "Myntra",
        style: TextStyle(
         fontWeight: FontWeight.bold,
         color: Colors.black,
        ),
       Spacer(),
       Text(
        "BECOME INSIDER >",
```

```
style: TextStyle(
      color: Colors.orange,
      fontWeight: FontWeight.bold,
      fontSize: 12,
     ),
   ),
 actions: [
  Icon(Icons.notifications_none, color: Colors.black),
  SizedBox(width: 16),
  Icon(Icons.favorite border, color: Colors.black),
  SizedBox(width: 16),
  Icon(Icons.account circle, color: Colors.black),
  SizedBox(width: 16),
 ],
body: SingleChildScrollView(
 child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: [
   // Search Bar
   Padding(
     padding: const EdgeInsets.all(16.0),
     child: TextField(
      decoration: InputDecoration(
       hintText: "Search for brands and products",
       prefixIcon: Icon(Icons.search),
       border: OutlineInputBorder(
         borderRadius: BorderRadius.circular(8),
       ),
   // HIM / HER Banner
   Padding(
     padding: const EdgeInsets.symmetric(horizontal: 16.0),
     child: ClipRRect(
      borderRadius: BorderRadius.circular(10),
      child: Image.asset(
       "assets/images/1.png",
       width: double.infinity, // Full width
       height: 200, // Fixed height
       fit: BoxFit.cover, // Ensures proper coverage
      ),
     ),
   SizedBox(height: 16),
   // Price Store Section
   _buildPriceStore(),
   // All-Time Faves Section
   Padding(
     padding: const EdgeInsets.all(16.0),
     child: Text(
      "ALL-TIME FAVES\nCurated For You",
      style: TextStyle(
```

```
fontWeight: FontWeight.bold,
         fontSize: 16,
        ),
       buildFavesGrid(),
  // Bottom Navigation Bar
  bottomNavigationBar: BottomNavigationBar(
   type: BottomNavigationBarType.fixed,
   selectedItemColor: Colors.pink,
   unselectedItemColor: Colors.grey,
   items: [
     BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: "Home",
     BottomNavigationBarItem(
      icon: Icon(Icons.category),
      label: "Categories",
     BottomNavigationBarItem(
      icon: Icon(Icons.person),
      label: "Profile",
    ),
   ],
   onTap: (index) {
     String currentRoute = ModalRoute.of(context)?.settings.name ?? "";
     String newRoute = "";
     switch (index) {
      case 0:
       newRoute = '/home';
       break;
      case 1:
       newRoute = '/categories';
       break:
      case 2:
       newRoute = '/profile';
       break;
    }
    if (currentRoute != newRoute) {
      Navigator.pushNamed(context, newRoute);
Widget _buildPriceStore() {
 return Container(
  color: Colors.orange.shade100,
  child: Column(
   crossAxisAlignment: CrossAxisAlignment.center,
   children: [
     Padding(
```

```
padding: const EdgeInsets.all(16.0),
                                                              child: Center(
       child: Text(
                                                               child: Text(
         "PRICE STORE",
                                                                text.
         style: TextStyle(
                                                                textAlign: TextAlign.center,
          fontWeight: FontWeight.bold,
                                                                style: TextStyle(
          color: Colors.orange,
                                                                 fontWeight: FontWeight.bold,
          fontSize: 16.
                                                                 color: Colors.orange,
        ),
                                                                ),
       ),
                                                               ),
                                                             ),
      Row(
                                                            );
       mainAxisAlignment:
MainAxisAlignment.spaceAround,
                                                           Widget buildFavesGrid() {
       children: [
        _buildPriceTile("Under ₹99"),
                                                            return Padding(
        buildPriceTile("Under ₹199"),
                                                              padding: const EdgeInsets.all(16.0),
         _buildPriceTile("Under ₹299"),
                                                              child: GridView.count(
         _buildPriceTile("Under ₹399"),
                                                               shrinkWrap: true,
                                                               crossAxisCount: 2,
       ],
                                                               crossAxisSpacing: 16,
      ),
                                                               mainAxisSpacing: 16,
                                                               childAspectRatio: 0.75, // Adjusted for better
                                                          image fit
                                                               physics: NeverScrollableScrollPhysics(),
                                                               children: [
                                                                 buildFaveItem("Under ₹799",
 Widget _buildPriceTile(String text) {
  return Container(
                                                          "assets/images/item1.png"),
                                                                 buildFaveItem("Under ₹699",
   height: 80,
                                                          "assets/images/item2.png"),
   width: 80,
   decoration: BoxDecoration(
                                                                 buildFaveItem("Under ₹599",
     border: Border.all(color: Colors.orange,
                                                          "assets/images/item3.png"),
width: 2).
                                                                 buildFaveItem("Under ₹499",
     borderRadius: BorderRadius.circular(8),
                                                          "assets/images/item4.png"),
   ),
     ],
   ),
 Widget buildFaveItem(String price, String imagePath) {
  return Column(
   crossAxisAlignment: CrossAxisAlignment.start,
   children: [
     ClipRRect(
      borderRadius: BorderRadius.circular(8),
      child: Image.asset(
       imagePath,
       height: 140, // Increased height for better visibility
       width: double.infinity,
       fit: BoxFit.cover, // Ensures the image fits well
      ),
     SizedBox(height: 8),
     Text(
      price,
      style: TextStyle(
       fontWeight: FontWeight.bold,
      ),
    ),
   ],
```



Products Page:

```
import 'package:flutter/material.dart';
void main() {
 runApp(MaterialApp(
  debugShowCheckedModeBanner: false,
  home: ProductPage(),
));
}
class ProductPage extends StatelessWidget {
 final List<Map<String, dynamic>> products = [
    "image": "assets/images/product1.png", // Replace with actual image URL
   "brand": "HERE&NOW",
   "name": "Bandhani Yoke Design Kurta",
   "price": 626,
    "originalPrice": 1899,
   "discount": "67% OFF",
   "rating": 4.0,
   "reviews": 2500,
   "image": "assets/images/product2.png",
   "brand": "Anouk",
   "name": "Printed Straight Kurta",
   "price": 441,
   "originalPrice": 1299,
   "discount": "66% OFF",
   "rating": 3.9,
   "reviews": 6500,
  },
    "image": "assets/images/product3.png",
   "brand": "KALINI",
   "name": "High-Slit Kurta",
    "price": 599,
    "originalPrice": 2499,
   "discount": "76% OFF",
   "rating": 4.3,
   "reviews": 5500,
  },
   "image": "assets/images/product4.png",
   "brand": "Varanga",
   "name": "Women Printed Kurta",
   "price": 599,
   "originalPrice": 1499,
   "discount": "60% OFF",
   "rating": 4.1,
   "reviews": 2600,
  },
 ];
 @override
 Widget build(BuildContext context) {
  return Scaffold(
```

```
appBar: AppBar(
 title: Text("MYNTRA"),
 centerTitle: true,
 backgroundColor: Colors.white,
 elevation: 1,
 iconTheme: IconThemeData(color: Colors.black),
 actions: [
  Icon(Icons.search, color: Colors.black),
  SizedBox(width: 10),
  Icon(Icons.favorite_border, color: Colors.black),
  SizedBox(width: 10),
  Icon(Icons.shopping bag outlined, color: Colors.black),
  SizedBox(width: 10),
 ],
body: GridView.builder(
 padding: EdgeInsets.all(10),
 gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
  crossAxisCount: 2,
  childAspectRatio: 0.6,
  crossAxisSpacing: 10,
  mainAxisSpacing: 10,
 ),
 itemCount: products.length,
 itemBuilder: (context, index) {
  final product = products[index];
  return Card(
   shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
   child: Column(
     crossAxisAlignment: CrossAxisAlignment.start,
     children: [
      ClipRRect(
       borderRadius: BorderRadius.vertical(top: Radius.circular(10)),
       child: Image.asset(
         product['image'],
         height: 150,
         width: double.infinity,
        fit: BoxFit.cover.
       ),
      Padding(
       padding: const EdgeInsets.all(8.0),
       child: Column(
         crossAxisAlignment: CrossAxisAlignment.start,
         children: [
          Text(
           product['brand'],
           style: TextStyle(fontWeight: FontWeight.bold),
          Text(
           product['name'],
           maxLines: 2,
           overflow: TextOverflow.ellipsis,
          SizedBox(height: 5),
          Row(
           children: [
             Text(
              "₹${product['price']}",
              style: TextStyle(fontWeight: FontWeight.bold, fontSize: 16),
```

```
SizedBox(width: 5),
            Text(
              "₹${product['originalPrice']}",
              style: TextStyle(
               decoration: TextDecoration.lineThrough,
               color: Colors.grey,
              ),
            ),
            SizedBox(width: 5),
            Text(
              product['discount'],
              style: TextStyle(color: Colors.red, fontWeight: FontWeight.bold),
            ),
           ],
          SizedBox(height: 5),
          Row(
           children: [
            Icon(Icons.star, color: Colors.amber, size: 16),
            SizedBox(width: 2),
            Text("${product['rating']} (${product['reviews']} Reviews)"),
bottomNavigationBar: BottomAppBar(
 child: Padding(
  padding: const EdgeInsets.all(10.0),
  child: Row(
   mainAxisAlignment: MainAxisAlignment.spaceBetween,
   children: [
     TextButton.icon(
      onPressed: () {},
      icon: Icon(Icons.category),
      label: Text("SORT"),
     TextButton.icon(
      onPressed: () {},
      icon: Icon(Icons.filter_list),
      label: Text("FILTER"),
```

