

MAD & PWA Lab

Journal

Experiment No.	03
Experiment Title.	To include icons, images, fonts in Flutter app
Roll No.	20
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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';
```

```
IconButton(  
  icon: Falcon(FontAwesomeIcons.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 -

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

Product.dart file

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

void main() {
  runApp(MyApp());
}

final List<Map<String, String>>
productDetails = [
  {"name": "Sancia women ethnic palazzo
set", "price": "₹2,500", "image":
"assets/palazzo.png", "rating": "4.5"},
  {"name": "Indya peach embroidered net
Anarkali", "price": "₹5,000", "image":
"assets/anarkali.png", "rating": "4.7"},
  {"name": "Dori pink Women wear Salwar
Suit", "price": "₹1,200", "image":
"assets/salwar.png", "rating": "4.3"},
  {"name": "Sareeka Pink net lehenga choli",
"price": "₹800", "image":
"assets/lehenga.png", "rating": "4.0"},
];

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: IndianwearPage(),
    );
  }
}

class IndianwearPage extends
StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Colors.white,
        elevation: 0,
        title: Text(
          "Indianwear",
          style: TextStyle(color: Colors.black,
fontSize: 20),
```

```
),
      leading: IconButton(
        icon: Icon(Icons.arrow_back, color:
Colors.black),
        onPressed: () =>
Navigator.pop(context),
      ),
      actions: [
        IconButton(
          icon: Icon(Icons.filter_list, color:
Colors.black),
          onPressed: () {
            // Add filter functionality
          },
        ),
      ],
    ),
    body: CustomScrollView(
      slivers: [
        SliverPadding(
          padding:
EdgeInsets.symmetric(horizontal: 5, vertical:
5),
          sliver: SliverGrid(
            delegate:
SliverChildBuilderDelegate(
              (BuildContext context, int index)
              {
                return ProductCard(
                  name:
productDetails[index]["name"]!,
                  price:
productDetails[index]["price"]!,
                  image:
productDetails[index]["image"]!,
                  rating:
productDetails[index]["rating"]!,
                );
              },
              childCount: productDetails.length,
            ),
            gridDelegate:
SliverGridDelegateWithFixedCrossAxisCou
nt(
              crossAxisCount: 2,
```

```

        mainAxisSpacing: 2,
        crossAxisSpacing: 2,
        childAspectRatio: 0.58,
      ),
    ),
  ],
),
bottomNavigationBar:
BottomNavigationBar(
  currentIndex: 0,
  selectedItemColor: Colors.black,
  unselectedItemColor: Colors.grey,
  backgroundColor: Colors.white,
  showUnselectedLabels: true,
  type: BottomNavigationBarType.fixed,
  onTap: (index) {
    // Add navigation functionality if
    needed
  },
  items: [
    BottomNavigationBarItem(icon:
Icon(Icons.home), label: 'Home'),
    BottomNavigationBarItem(icon:
Icon(Icons.category), label: 'Categories'),
    BottomNavigationBarItem(icon:
Icon(Icons.style), label: 'Stay Stylish'),
    BottomNavigationBarItem(icon:
Icon(Icons.account_circle), label: 'Account'),
  ],
),
);
}
}

```

```

class ProductCard extends StatelessWidget
{
  final String name;
  final String price;
  final String image;
  final String rating;

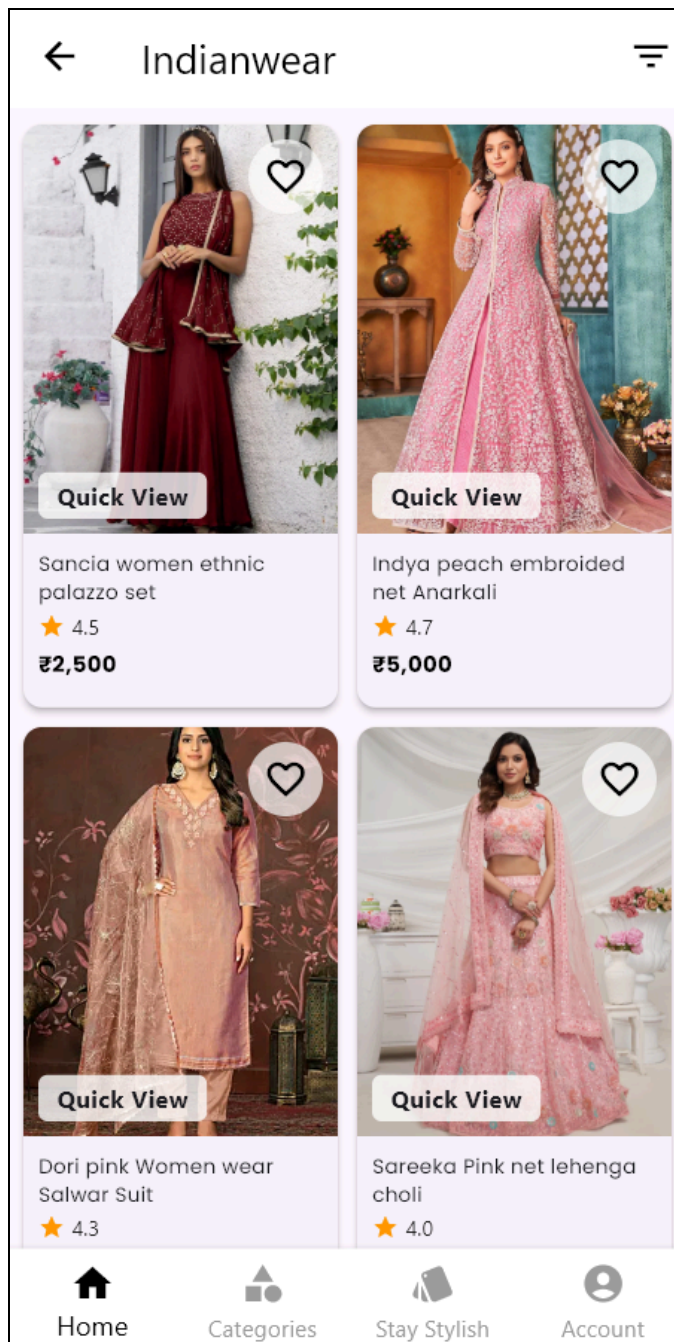
  const ProductCard({
    required this.name,
    required this.price,
    required this.image,
    required this.rating,
  });
}

```

```

@override
Widget build(BuildContext context) {
  return GestureDetector(
    onTap: () {
      // Navigate to the ProductDetailPage
      Navigator.push(
        context,
        MaterialPageRoute(
          builder: (context) =>
ProductDetailPage(
          name: name,
          price: price,
          image: image,
          rating: rating,
        ),
      ),
    ),
  );
},
child: Card(
  elevation: 3,
  shape:
RoundedRectangleBorder(borderRadius:
BorderRadius.circular(10)),
  child: Column(
    crossAxisAlignment:
CrossAxisAlignment.start,
    children: [
      // Product Image with Heart Icon &
      Quick View Button
      Stack(
        children: [
          ClipRRect(
            borderRadius:
BorderRadius.vertical(top:
Radius.circular(10)),
            child: Image.asset(
              image,
              width: double.infinity,
              height: 220, // Increased image
height
              fit: BoxFit.cover,
            ),
          ),
          // Heart Icon
          Positioned(
            top: 8,
            right: 8,

```

ProductDetailPage.dart

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

```
class ProductDetailPage extends  
StatelessWidget {  
  final String name;  
  final String price;  
  final String image;  
  final String rating;
```

```
const ProductDetailPage({  
  required this.name,  
  required this.price,  
  required this.image,  
  required this.rating,  
});
```

```
@override  
Widget build(BuildContext context) {
```

```

return Scaffold(
  appBar: AppBar(
    backgroundColor: Colors.white,
    elevation: 0,
    title: Text(
      "Product Details",
      style: TextStyle(color: Colors.black,
fontSize: 20),
    ),
    leading: IconButton(
      icon: Icon(Icons.arrow_back, color:
Colors.black),
      onPressed: () =>
Navigator.pop(context),
    ),
    body: SingleChildScrollView( // Makes
the entire page scrollable
      padding: const EdgeInsets.all(8.0),
      child: Container(
        margin:
EdgeInsets.symmetric(horizontal: 12.0),
        child: Column(
          crossAxisAlignment:
CrossAxisAlignment.start,
          children: [
            // Product Image
            Center(
              child: ClipRRect(
                borderRadius:
BorderRadius.circular(6),
                child: Image.asset(
                  image,
                  width: 300,
                  height: 400,
                  fit: BoxFit.cover,
                ),
              ),
            ),
            SizedBox(height: 20),
            // Product Name
            Text(name, style:
TextStyle(fontSize: 18, fontFamily:
"Poppins")),
            SizedBox(height: 10),
            // Rating
            Row(
              children: [

```

```

Icon(Icons.star, color:
Colors.orange, size: 15),
            SizedBox(width: 5),
            Text(rating, style:
TextStyle(fontSize: 14)),
          ],
        ),
        SizedBox(height: 10),
        // Price
        Text(price, style: TextStyle(fontSize:
18, color: Colors.black,fontFamily:
"Poppins", fontWeight: FontWeight.bold)),
        SizedBox(height: 20),
        // Product Description
        Text(
          "This is a great product. It offers a
blend of style, comfort, and quality. Perfect
for any occasion.",
          style: TextStyle(fontSize: 12, color:
Colors.black87),
        ),
        SizedBox(height: 20),
        // Select Size (like Nykaa)
        Text("Select Size", style:
TextStyle(fontSize: 14, fontWeight:
FontWeight.bold, fontFamily: "Poppins")),
        SizedBox(height: 10),
        DropdownButton<String>(
          isExpanded: true,
          hint: Text("Choose a size"),
          items: <String>['S', 'M', 'L', 'XL',
'XXL'].map((String size) {
            return
DropdownMenuItem<String>(
              value: size,
              child: Text(size),
            );
          }).toList(),
          onChanged: (value) {
            // Handle size selection
          },
        ),
        SizedBox(height: 20),
        // Product Details
        Text("Product Details", style:
TextStyle(fontSize: 14, fontWeight:
FontWeight.bold, fontFamily: "Poppins")),
        SizedBox(height: 10),

```



```

      Text(
        "Material: Cotton\nBrand:
XYZ\nCare: Hand wash\nColor:
Red\nPattern: Solid",
        style: TextStyle(fontSize: 12, color:
Colors.black87, fontFamily: "Poppins"),
      ),
      SizedBox(height: 20),
      // Delivery Date
      Text("Delivery Date", style:
TextStyle(fontSize: 14, fontWeight:
FontWeight.bold, fontFamily: "Poppins")),
      SizedBox(height: 10),
      Text(
        "Expected delivery: 3-5 business
days.",
        style: TextStyle(fontSize: 14, color:
Colors.black87, fontFamily: "Poppins"),
      ),
      SizedBox(height: 20),
      // Add to Cart Button
      Center(
        child: ElevatedButton(
          onPressed: () {
            // Add to cart functionality (you
can implement it here)
          },
          style: ElevatedButton.styleFrom(
            padding:
EdgeInsets.symmetric(vertical: 15,
horizontal: 100),

            shape:
RoundedRectangleBorder(borderRadius:
BorderRadius.circular(30)),
          ),
        child: Text("Add to Cart", style:
TextStyle(fontSize: 16, color: Colors.pink,
fontFamily: "Poppins")),
      ),
    ),
  ],
),
),
);
}
}

```

pubspec.yaml

flutter:

assets:

- assets/pinkbg.jpg
- assets/women.png
- assets/indianwear.png
- assets/footwear.png
- assets/westernwear.png
- assets/winterwear.png
- assets/offer_banner.png
- assets/sale_banner.png
- assets/nykaa_logo.png
- assets/product1.png
- assets/product2.png
- assets/product3.png
- assets/product4.png
- assets/product5.png
- assets/product6.png
- assets/foot.png
- assets/ethnicwear.png
- assets/watches.png
- assets/jewellery.png
- assets/bags.png
- assets/lehenga.png
- assets/salwar.png
- assets/palazzo.png
- assets/anarkali.png

fonts:

- family: Poppins

fonts:

- asset: assets/Poppins-Regular.ttf
 - asset: assets/Poppins-Bold.ttf
- weight: 700

← Product Details



Sancia women ethnic palazzo set

★ 4.5

₹2,500

This is a great product. It offers a blend of style, comfort, and quality. Perfect for any occasion.

Select Size

← Product Details



Sancia women ethnic palazzo set

★ 4.5

₹2,500

This is a great product. It offers a blend of style, comfort, and quality. Perfect for any occasion.

Select Size

Choose a size

Product Details

Material: Cotton
Brand: XYZ
Care: Hand wash
Color: Red
Pattern: Solid

Delivery Date

Expected delivery: 3-5 business days.

Add to Cart

Bag.dart

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

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: ShoppingBagScreen(),
    );
  }
}

class ShoppingBagScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Colors.white,
        elevation: 0,
        leading: IconButton(
          icon: const Icon(Icons.arrow_back,
            color: Colors.black),
          onPressed: () {
            Navigator.pop(context); // Go back to
            the previous screen
          },
        ),
        title: const Text(
          "Bag",
          style: TextStyle(color: Colors.black,
            fontSize: 22, fontWeight: FontWeight.bold),
        ),
        actions: [
          TextButton(
            onPressed: () {},
            child: const Text(
              "Wishlist",
              style: TextStyle(color:
                Colors.pinkAccent, fontSize: 14),
```

```
            ),
          ),
        ],
      ),
      body: Column(
        children: [

          // UPI Discount Info
          Container(
            padding: const EdgeInsets.all(10),
            color: Colors.blue[50],
            child: const Row(
              children: [
                Icon(Icons.info_outline, color:
                  Colors.blue),
                SizedBox(width: 8),
                Text("Flat discount on UPI
                  payment"),
              ],
            ),
          ),

          // Check Delivery Date Section
          Container(
            padding: const EdgeInsets.all(12),
            child: Row(
              children: [
                const
                Icon(Icons.local_shipping_outlined, color:
                  Colors.black),
                const SizedBox(width: 10),
                const Text("Check Delivery Date"),
                const Spacer(),
                ElevatedButton(
                  onPressed: () {},
                  child: const Text("Enter
                    Pincode"),
                ),
              ],
            ),
          ),

          // Product List
          Expanded(
            child: ListView(
              children: [
                ProductItem(
```

```

        imageUrl:
"https://uspoloassn.in/cdn/shop/products/3_f
eb4870a-798f-4663-9eed-768c9e04a376_3
024x.jpg?v=1686246326", // Replace with
actual image URL
        brand: "U.S. POLO ASSN.",
        title: "Light Blue High Rise
Pleated Wide Leg...",
        size: "Size 28",
        price: 1820,
        originalPrice: 2799,
        discount: "35% off",
    ),
    ProductItem(
        imageUrl:
"https://images-static.nykaa.com/media/cata
log/product/tr:h-800,w-800,cm-pad_resize/c/
3/c35b0ab1CONISPECAIN009_1.jpg", //
Replace with actual image URL
        brand: "Aldo",
        title: "Iconispeca-In009 Women
Black Sneake...",
        size: "Size UK 3",
        price: 0, // Update price
        originalPrice: 0, // Update original
price
        discount: "", // Update discount if
needed
    ),
    ],
    ),
    ),
    ),

    // Savings Section
    Container(
        padding: const EdgeInsets.all(10),
        color: Colors.green[50],
        child: const Text(
            "You will save ₹6,978 on this
purchase.",
            style: TextStyle(color: Colors.green,
fontSize: 12),
        ),
    ),

    // Total Price & Proceed to Buy Button
    Container(
        padding: const EdgeInsets.all(12),

```

```

        color: Colors.white,
        child: Row(
            mainAxisAlignment:
MainAxisAlignment.spaceBetween,
            children: [
                Column(
                    crossAxisAlignment:
CrossAxisAlignment.start,
                    children: [
                        const Text(
                            "₹7,849",
                            style: TextStyle(fontSize: 20,
fontWeight: FontWeight.bold),
                        ),
                        TextButton(
                            onPressed: () {},
                            child: const Text("View
Details", style: TextStyle(color:
Colors.blue)),
                        ),
                    ],
                ),
                ElevatedButton(
                    style: ElevatedButton.styleFrom(
                        backgroundColor: Colors.black,
                        padding: const
EdgeInsets.symmetric(horizontal: 20,
vertical: 15),
                    ),
                    onPressed: () {},
                    child: const Text("Proceed to
Buy", style: TextStyle(color: Colors.white,
fontSize: 16)),
                ),
            ],
        ),
    ),
    },
    },
    );
}
}

class ProductItem extends StatelessWidget
{
    final String imageUrl;
    final String brand;
    final String title;

```

```

final String size;
final int price;
final int originalPrice;
final String discount;

const ProductItem({
  required this.imageUrl,
  required this.brand,
  required this.title,
  required this.size,
  required this.price,
  required this.originalPrice,
  required this.discount,
});

@override
Widget build(BuildContext context) {
  return Container(
    margin: const
EdgeInsets.symmetric(vertical: 10,
horizontal: 15),
    padding: const EdgeInsets.all(10),
    decoration: BoxDecoration(
      color: Colors.white,
      borderRadius:
BorderRadius.circular(10),
      boxShadow: [
        BoxShadow(color:
Colors.grey.shade200, blurRadius: 5,
spreadRadius: 1),
      ],
    ),
    child: Row(
      crossAxisAlignment:
CrossAxisAlignment.start,
      children: [
        Image.network(imageUrl, width: 80,
height: 80, fit: BoxFit.cover),
        const SizedBox(width: 10),
        Expanded(
          child: Column(
            crossAxisAlignment:
CrossAxisAlignment.start,
            children: [
              Text(brand, style: const
TextStyle(fontSize: 14, fontWeight:
FontWeight.bold)),

```

```

Text(title, style: const
TextStyle(fontSize: 12, color: Colors.grey)),
        const SizedBox(height: 5),
        Text(size, style: const
TextStyle(fontSize: 11)),
        const SizedBox(height: 5),
        Row(
          children: [
            Text("₹$price", style: const
TextStyle(fontSize: 14, fontWeight:
FontWeight.bold)),
            const SizedBox(width: 10),
            Text(
              "$originalPrice",
              style: const TextStyle(fontSize:
12, decoration: TextDecoration.lineThrough,
color: Colors.grey),
            ),
            const SizedBox(width: 10),
            Text(discount, style: const
TextStyle(fontSize: 12, color: Colors.green)),
          ],
        ),
        const SizedBox(height: 5),
        const Text("7 day return", style:
TextStyle(fontSize: 12, color: Colors.grey)),
      ],
    ),
    ),
    ),
    IconButton(
      icon: const Icon(Icons.close, color:
Colors.grey),
      onPressed: () {},
    ),
  ],
),
);
}
}

```



Bag

Wishlist



Flat discount on UPI payment



Check Delivery Date

Enter Pincode



U.S. POLO ASSN.

Light Blue High Rise Pleated
Wide Leg...

Size 28

₹1820 ~~₹2799~~ 35% off

7 day return



Aldo

Iconispeca-In009 Women Black
Sneake...

Size UK 3

₹0 ~~₹0~~

7 day return



You will save ₹6,978 on this purchase.

₹7,849

[View Details](#)

Proceed to Buy