

## Experiment 2: Designing the UI for Myntra App in Flutter

### Aim:

To design a Flutter UI for the Myntra App, including a **Login Page, Sign-up Page, Home Page, and Categories Page**, using common Flutter widgets.

### Theory:

Flutter provides a wide range of widgets to build UI components. The key widgets used in this Myntra App include:

- **Scaffold**: Provides the basic layout structure.
- **SafeArea**: Ensures content is within safe display boundaries.
- **Container**: Used for styling elements with colors, images, or gradients.
- **Column & Row**: Used for structuring UI components in vertical and horizontal arrangements.
- **TextField**: Allows user input.
- **ElevatedButton**: Used for clickable buttons.
- **GridView**: Used for displaying lists of categories and products in a grid format.
- **BottomNavigationBar**: Provides navigation at the bottom.
- **AppBar**: Displays the top navigation bar.
- **ClipRRect**: Rounds the corners of images.

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### Common Widgets in Each Page

#### 1. Login Page

### Code:

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

```
class LoginPage extends StatelessWidget {  
  final TextEditingController mobileController = TextEditingController();
```

```
  @override
```

```
  Widget build(BuildContext context) {  
    return Scaffold(  
      backgroundColor: Colors.white,
```

```

body: SafeArea(
  child: Column(
    children: [
      // Full Banner Section with Image
      Container(
        width: double.infinity,
        height: 200,
        decoration: BoxDecoration(
          gradient: LinearGradient(
            colors: [Colors.yellow.shade100, Colors.pink.shade100],
            begin: Alignment.topLeft,
            end: Alignment.bottomRight,
          ),
        ),
        child: Image.asset(
          'assets/images/shopping_cart.png', // Replace with your image
          fit: BoxFit.cover, // Ensures the image covers the entire container
        ),
      ),

      const SizedBox(height: 20),

      // Login or Signup Text
      Padding(
        padding: const EdgeInsets.symmetric(horizontal: 16.0),
        child: Row(
          children: [
            Text(
              "Login ",
              style: TextStyle(
                fontSize: 18,
                fontWeight: FontWeight.bold,
                color: Colors.black,
              ),
            ),
            Text(

```

```
        "or Signup",
        style: TextStyle(
          fontSize: 18,
          color: Colors.black54,
        ),
      ),
    ],
  ),
),

const SizedBox(height: 20),

// Input Field
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 16.0),
  child: TextField(
    controller: mobileController,
    keyboardType: TextInputType.phone,
    decoration: InputDecoration(
      hintText: "Mobile Number",
      hintStyle: TextStyle(color: Colors.grey),
      border: OutlineInputBorder(
        borderRadius: BorderRadius.circular(8),
      ),
      focusedBorder: OutlineInputBorder(
        borderRadius: BorderRadius.circular(8),
        borderSide: BorderSide(
          color: Colors.pink.shade300,
          width: 2,
        ),
      ),
    ),
    contentPadding: const EdgeInsets.symmetric(horizontal: 16),
  ),
),
),
```

```
const SizedBox(height: 20),

// Continue Button
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 16.0),
  child: SizedBox(
    width: double.infinity,
    child: ElevatedButton(
      onPressed: () {
        // Navigate to Home Page
        Navigator.pushNamed(context, '/home');
      },
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.pink.shade300,
        padding: const EdgeInsets.symmetric(vertical: 16),
        shape: RoundedRectangleBorder(
          borderRadius: BorderRadius.circular(8),
        ),
      ),
      child: Text(
        "CONTINUE",
        style: TextStyle(
          fontSize: 16,
          color: Colors.white,
          fontWeight: FontWeight.bold,
        ),
      ),
    ),
  ),
),
),
),
),

const SizedBox(height: 20),

// Don't have an account? Sign up
Row(
  mainAxisAlignment: MainAxisAlignment.center,
```

```

children: [
  Text(
    "Don't have an account? ",
    style: TextStyle(color: Colors.black54),
  ),
  GestureDetector(
    onTap: () {
      // Navigate to Sign Up Page
      Navigator.pushNamed(context, '/signup');
    },
    child: Text(
      "Sign up",
      style: TextStyle(
        color: Colors.pink.shade300,
        fontWeight: FontWeight.bold,
      ),
    ),
  ),
],
),
],
),
),
);
}
}

```

- **Container:** Used for the background gradient and image.
- **Column:** Structures the UI.
- **Row:** Arranges "Login or Signup" text horizontally.
- **TextField:** Captures mobile number input.
- **ElevatedButton:** Used for the "CONTINUE" button.
- **GestureDetector:** Allows user interaction for the "Sign up" text.



**Login** or Signup

Mobile Number

**CONTINUE**

Don't have an account? [Sign up](#)

## 2. Sign-Up Page

### Code:

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

class SignUpPage extends StatelessWidget {
  final TextEditingController nameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController mobileController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      body: SafeArea(
        child: Column(
          children: [
            // Full Banner Section with Image
            Container(
              width: double.infinity,
              height: 200,
              decoration: BoxDecoration(
                gradient: LinearGradient(
                  colors: [Colors.yellow.shade100, Colors.pink.shade100],
                  begin: Alignment.topLeft,
                  end: Alignment.bottomRight,
                ),
              ),
            ),
            child: Image.asset(
              'assets/images/shopping_cart.png', // Replace with your image
              fit: BoxFit.cover,
            ),
          ],
        ),
      ),
      const SizedBox(height: 20),
    );
  }
}
```

```
// Sign Up Text
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 16.0),
  child: Row(
    children: [
      Text(
        "Create ",
        style: TextStyle(
          fontSize: 18,
          fontWeight: FontWeight.bold,
          color: Colors.black,
        ),
      ),
      Text(
        "Account",
        style: TextStyle(
          fontSize: 18,
          color: Colors.black54,
        ),
      ),
    ],
  ),
),
```

```
const SizedBox(height: 20),
```

```
// Name Field
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 16.0),
  child: TextField(
    controller: nameController,
    decoration: InputDecoration(
      hintText: "Full Name",
      hintStyle: TextStyle(color: Colors.grey),
      border: OutlineInputBorder(
        borderRadius: BorderRadius.circular(8),

```



```
),  
focusedBorder: OutlineInputBorder(  
  borderRadius: BorderRadius.circular(8),  
  borderSide: BorderSide(  
    color: Colors.pink.shade300,  
    width: 2,  
  ),  
),  
contentPadding: const EdgeInsets.symmetric(horizontal: 16),  
),  
),  
),
```

```
const SizedBox(height: 12),
```

```
// Email Field
```

```
Padding(  
  padding: const EdgeInsets.symmetric(horizontal: 16.0),  
  child: TextField(  
    controller: emailController,  
    keyboardType: TextInputType.emailAddress,  
    decoration: InputDecoration(  
      hintText: "Email Address",  
      hintStyle: TextStyle(color: Colors.grey),  
      border: OutlineInputBorder(  
        borderRadius: BorderRadius.circular(8),  
      ),  
      focusedBorder: OutlineInputBorder(  
        borderRadius: BorderRadius.circular(8),  
        borderSide: BorderSide(  
          color: Colors.pink.shade300,  
          width: 2,  
        ),  
      ),  
      contentPadding: const EdgeInsets.symmetric(horizontal: 16),  
    ),
```

```

    ),
  ),

  const SizedBox(height: 12),

  // Mobile Number Field
  Padding(
    padding: const EdgeInsets.symmetric(horizontal: 16.0),
    child: TextField(
      controller: mobileController,
      keyboardType: TextInputType.phone,
      decoration: InputDecoration(
        hintText: "Mobile Number",
        hintStyle: TextStyle(color: Colors.grey),
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(8),
        ),
        focusedBorder: OutlineInputBorder(
          borderRadius: BorderRadius.circular(8),
          borderSide: BorderSide(
            color: Colors.pink.shade300,
            width: 2,
          ),
        ),
      ),
      contentPadding: const EdgeInsets.symmetric(horizontal: 16),
    ),
  ),

  const SizedBox(height: 12),

  // Password Field
  Padding(
    padding: const EdgeInsets.symmetric(horizontal: 16.0),
    child: TextField(
      controller: passwordController,

```

```
obscureText: true,  
decoration: InputDecoration(  
  hintText: "Password",  
  hintStyle: TextStyle(color: Colors.grey),  
  border: OutlineInputBorder(  
    borderRadius: BorderRadius.circular(8),  
  ),  
  focusedBorder: OutlineInputBorder(  
    borderRadius: BorderRadius.circular(8),  
    borderSide: BorderSide(  
      color: Colors.pink.shade300,  
      width: 2,  
    ),  
  ),  
  contentPadding: const EdgeInsets.symmetric(horizontal: 16),  
),  
),  
),
```

```
const SizedBox(height: 20),
```

```
// Sign Up Button
```

```
Padding(  
  padding: const EdgeInsets.symmetric(horizontal: 16.0),  
  child: SizedBox(  
    width: double.infinity,  
    child: ElevatedButton(  
      onPressed: () {  
        // Navigate to Home Page  
        Navigator.pushNamed(context, '/home');  
      },  
      style: ElevatedButton.styleFrom(  
        backgroundColor: Colors.pink.shade300,  
        padding: const EdgeInsets.symmetric(vertical: 16),  
        shape: RoundedRectangleBorder(  
          borderRadius: BorderRadius.circular(8),
```

```

    ),
  ),
  child: Text(
    "SIGN UP",
    style: TextStyle(
      fontSize: 16,
      color: Colors.white,
      fontWeight: FontWeight.bold,
    ),
  ),
),
),
),
),

const SizedBox(height: 20),

// Already have an account? Login
Row(
  mainAxisAlignment: MainAxisAlignment.center,
  children: [
    Text(
      "Already have an account? ",
      style: TextStyle(color: Colors.black54),
    ),
    GestureDetector(
      onTap: () {
        Navigator.pop(context); // Go back to Login Page
      },
      child: Text(
        "Login",
        style: TextStyle(
          color: Colors.pink.shade300,
          fontWeight: FontWeight.bold,
        ),
      ),
    ),
  ],
),

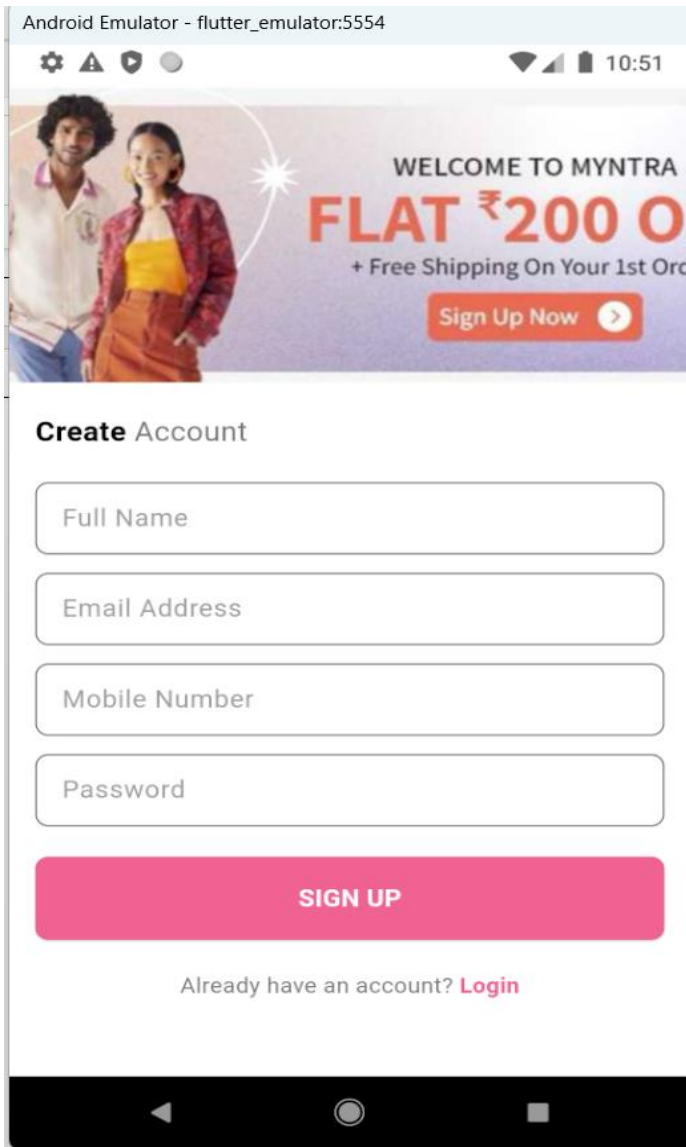
```

```

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

```

- **Container:** Background image section.
- **Column:** Arranges the elements vertically.
- **TextField:** Captures name, email, mobile number, and password input.
- **ElevatedButton:** "SIGN UP" button.



### 3. Home Page

**Code:**

```
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: Text(
      "PRICE STORE",
      style: TextStyle(
        fontWeight: FontWeight.bold,
        color: Colors.orange,
        fontSize: 16,
      ),
    ),
  ),
  Row(
    mainAxisAlignment: MainAxisAlignment.spaceAround,
    children: [
      _buildPriceTile("Under ₹99"),
      _buildPriceTile("Under ₹199"),
      _buildPriceTile("Under ₹299"),
      _buildPriceTile("Under ₹399"),
    ],
  ),
],
),
);
}

```

```

Widget _buildPriceTile(String text) {
  return Container(
    height: 80,
    width: 80,
    decoration: BoxDecoration(
      border: Border.all(color: Colors.orange, width: 2),
      borderRadius: BorderRadius.circular(8),
    ),
    child: Center(
      child: Text(

```

```
text,  
textAlign: TextAlign.center,  
style: TextStyle(  
  fontWeight: FontWeight.bold,  
  color: Colors.orange,  
),  
),  
),  
);  
}
```

```
Widget _buildFavesGrid() {  
  return Padding(  
    padding: const EdgeInsets.all(16.0),  
    child: GridView.count(  
      shrinkWrap: true,  
      crossAxisCount: 2,  
      crossAxisSpacing: 16,  
      mainAxisSpacing: 16,  
      childAspectRatio: 0.75, // Adjusted for better image fit  
      physics: NeverScrollableScrollPhysics(),  
      children: [  
        _buildFaveItem("Under ₹799", "assets/images/item1.png"),  
        _buildFaveItem("Under ₹699", "assets/images/item2.png"),  
        _buildFaveItem("Under ₹599", "assets/images/item3.png"),  
        _buildFaveItem("Under ₹499", "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,
    ),
  ),
],
);
}
}

```

- **AppBar:** Displays Myntra logo, user account icon, and notification icon.
- **TextField:** Search bar for product searches.
- **ClipRRect:** Rounds the corners of images for banners and product thumbnails.
- **GridView:** Displays product collections.
- **BottomNavigationBar:** Provides navigation for Home, Categories, and Profile.



**Myntra**

[BECOME INSIDER >](#)



Search for brands and products



Search for brands and products



««HIM

HER»»



### PRICE STORE

Under ₹99

Under ₹199

Under ₹299

Under ₹399

### ALL-TIME FAVES

Curated For You



Home



Categories



Profile



#### 4. Categories Page

##### Code:

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

class CategoriesPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      appBar: AppBar(
        backgroundColor: Colors.white,
        elevation: 0,
        title: Text(
          "Categories",
          style: TextStyle(
            fontWeight: FontWeight.bold,
            color: Colors.black,
          ),
        ),
        leading: IconButton(
          icon: Icon(Icons.arrow_back, color: Colors.black),
          onPressed: () {
            Navigator.pop(context);
          },
        ),
      ),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: GridView.builder(
          gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
            crossAxisCount: 2,
            crossAxisSpacing: 16,
            mainAxisSpacing: 16,
            childAspectRatio: 0.8,
          ),
          itemCount: categories.length,
```

```

itemBuilder: (context, index) {
  return _buildCategoryTile(
    categories[index]['name']!,
    categories[index]['image']!,
  );
},
),
);
}

```

```

Widget _buildCategoryTile(String name, String imagePath) {
  return GestureDetector(
    onTap: () {
      print("$name category clicked");
    },
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.center,
      children: [
        ClipRRect(
          borderRadius: BorderRadius.circular(8),
          child: Image.asset(
            imagePath,
            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 = [
  {"name": "Men", "image": "assets/images/men.png"},
  {"name": "Women", "image": "assets/images/women.png"},
  {"name": "Kids", "image": "assets/images/kids.png"},
  {"name": "Footwear", "image": "assets/images/footwear.png"},
  {"name": "Accessories", "image": "assets/images/accessories.png"},
  {"name": "Beauty", "image": "assets/images/beauty.png"},
];
```

- **GridView.builder:** Displays categories dynamically.
- **ClipRRect:** Rounds category images.





## ← Categories



Men



Women



Kids



Footwear



## Flutter Syntax for Common Widgets:

### 1.Scaffold

```
dart
CopyEdit
Scaffold(
  appBar: AppBar(
    title: Text("Myntra"),
  ),
  body: Center(child: Text("Hello, Myntra!")),
);
```

### 2.Container

```
dart
CopyEdit
Container(
  width: 100,
  height: 100,
  decoration: BoxDecoration(
    color: Colors.pink,
    borderRadius: BorderRadius.circular(10),
  ),
);
```

### 3.Column & Row

```
dart
CopyEdit
Column(
  children: [
    Text("Login"),
    ElevatedButton(onPressed: () {}, child: Text("Continue")),
  ],
);
Row(
  mainAxisAlignment: MainAxisAlignment.center,
```

```
children: [
  Text("Already have an account? "),
  GestureDetector(
    onTap: () {},
    child: Text("Login", style: TextStyle(color: Colors.blue)),
  ),
],
);
```

#### **4.TextField**

```
dart
CopyEdit
TextField(
  decoration: InputDecoration(
    hintText: "Enter Mobile Number",
    border: OutlineInputBorder(),
  ),
);
```

#### **5.GridView**

```
dart
CopyEdit
GridView.count(
  crossAxisCount: 2,
  children: [
    Image.asset("assets/images/men.png"),
    Image.asset("assets/images/women.png"),
  ],
);
```