

MPL Experiment 3

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Aim: To include icons, images, Fonts in Flutter app.

Theory:

Incorporating icons, images, and custom fonts in a Flutter application enhances the visual appeal and improves the user experience. Flutter provides different ways to add these elements:

1. Icons:

Icons can be added using the built-in `Icons` class with the `Icon` widget. Custom icons can also be used via the `flutter_launcher_icons` package.

2. Images:

Images can be displayed in two ways:

- **From assets:** Images stored locally in the app's assets folder can be loaded using the `Image.asset()` method.
- **From the internet:** Images can be fetched dynamically from a URL using the `Image.network()` method.

Examples:

- **Loading an image from assets:**

```
Image.asset(  
  
  'assets/images/sample.png'  
  
  , fit: BoxFit.cover,  
  
  width: double.infinity,  
  
)
```

- **Loading an image from a URL:**

```
Image.network(  
  
  'https://example.com/sample.jpg',  
  
  width : double.infinity,  
  
  fit : BoxFit.cover,
```

)

3. Fonts:

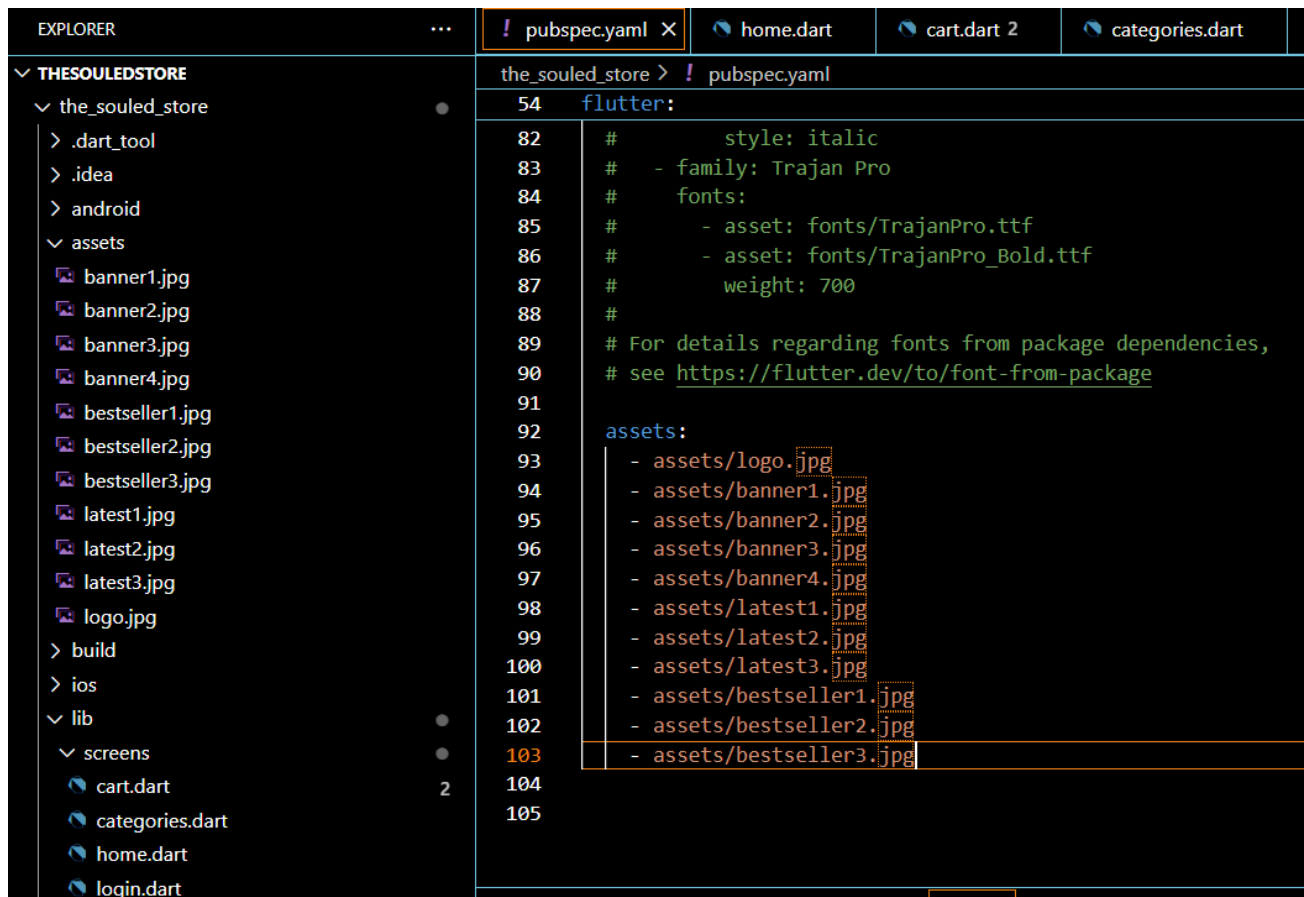
Custom fonts improve typography and branding. To add custom fonts, font files must be placed in the `assets/fonts/` directory and declared in `pubspec.yaml` under the `flutter` section. Using `TextStyle` with the `fontFamily` property applies the custom font to text elements.

Steps:

Step 1: Create an `assets` folder inside the project directory. Inside the `assets` folder, create an `images` folder and add the required images.

Step 2: Open `pubspec.yaml` and add the following under the `flutter` section:

```
flutter:  
  assets  
  :  
    - assets/images/
```



Step 3: Run the following command in the terminal to apply the changes:

```
flutter pub get
```

Code:

home.dart:

```
import 'package:flutter/material.dart';
import 'wishlist.dart'; // Import WishlistPage
import 'categories.dart'; // Import CategoriesPage
import 'profile.dart'; // Import ProfilePage
import 'cart.dart'; // Import CartPage

class HomePage extends StatefulWidget {
  @override
  _HomePageState createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  int _selectedIndex = 0;
  int _selectedCategory = 0;
  int _currentBannerIndex = 0;
  final PageController _bannerController = PageController();

  final List<String> _banners = [
    'assets/banner1.jpg',
    'assets/banner2.jpg',
    'assets/banner3.jpg',
    'assets/banner4.jpg',
  ];

  final List<String> _latestCollection = [
    'assets/latest1.jpg',
    'assets/latest2.jpg',
    'assets/latest3.jpg',
  ];

  final List<Map<String, String>> _bestsellers = [
    {
      'image': 'assets/bestseller1.jpg',
```

```

        'name': 'Premium Cotton Shirt',
        'category': 'Womens shirts',
        'mrp': '₹999',
        'tax': 'Incl. of all taxes'
    },
    {
        'image': 'assets/bestseller2.jpg',
        'name': 'Comfy Tees',
        'category': 'Womens tshirts',
        'mrp': '₹499',
        'tax': 'Incl. of all taxes'
    },
    {
        'image': 'assets/bestseller3.jpg',
        'name': 'Trending sneakers',
        'category': 'Sneakers',
        'mrp': '₹2,199',
        'tax': 'Incl. of all taxes'
    },
];

void _onItemTapped(int index) {
    if (index == 1) {
        // Navigate to Wishlist when Wishlist icon is tapped
        Navigator.pushReplacement(
            context,
            MaterialPageRoute(builder: (context) => WishListPage()),
        );
    } else if (index == 0) {
        // Navigate to Home when Home icon is tapped
        Navigator.pushReplacement(
            context,
            MaterialPageRoute(builder: (context) => HomePage()),
        );
    } else if (index == 2) {

```

```

        // Navigate to Categories when Categories icon is tapped
        Navigator.pushReplacement(
            context,
            MaterialPageRoute(builder: (context) => CategoriesPage()),
        );
    } else if (index == 4) {
        // Navigate to Profile when Profile icon is tapped
        Navigator.pushReplacement(
            context,
            MaterialPageRoute(builder: (context) => ProfilePage()),
        );
    } else {
        setState(() {
            _selectedIndex = index;
        });
    }
}

@override
Widget build(BuildContext context) {
    double screenHeight = MediaQuery.of(context).size.height;
    double bannerHeight = screenHeight * 0.7;

    return Scaffold(
        backgroundColor: Colors.white,
        appBar: AppBar(
            backgroundColor: Colors.white,
            elevation: 0,
            leading: IconButton(
                icon: Icon(Icons.menu, color: Colors.black, size: 28),
                onPressed: () {},
            ),
            title: Image.asset(
                'assets/logo.jpg',
                height: 50,
            ),
        ),
    );
}

```

```

    ),
    centerTitle: true,
    actions: [
        IconButton(
            icon: Icon(Icons.search, color: Colors.black, size: 28),
            onPressed: () {},
        ),
        IconButton(
            icon: Icon(Icons.shopping_cart, color: Colors.black, size: 28),
            onPressed: () {
                Navigator.push(
                    context,
                    MaterialPageRoute(builder: (context) => CartPage()),
                );
            },
        ),
    ],
),
body: SingleChildScrollView(
    child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
            Padding(
                padding: const EdgeInsets.symmetric(vertical: 10),
                child: Row(
                    mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                    children: ['MEN', 'WOMEN',
'KIDS'].asMap().entries.map((entry) {
                        int index = entry.key;
                        String category = entry.value;
                        return GestureDetector(
                            onTap: () => setState(() => _selectedCategory = index),
                            child: Column(
                                children: [
                                    Text(

```

```
category,
    style: TextStyle(
      fontSize: 16,
      fontWeight: FontWeight.w500,
      color: Colors.black,
    ),
  ),
  if (_selectedCategory == index)
    Container(
      margin: EdgeInsets.only(top: 4),
      height: 3,
      width: 50,
      color: Colors.teal,
    ),
],
),
);
}).toList(),
),
),
SizedBox(
  height: bannerHeight,
  child: PageView.builder(
    controller: _bannerController,
    onPageChanged: (index) => setState(() => _currentBannerIndex
= index),
    itemCount: _banners.length,
    itemBuilder: (_, index) => Padding(
      padding: EdgeInsets.symmetric(horizontal: 8),
      child: ClipRRect(
        borderRadius: BorderRadius.circular(10),
        child: Image.asset(
          _banners[index],
          fit: BoxFit.cover,
          width: double.infinity,
```

```

        ),
      ),
    ),
  ),
),
 SizedBox(height: 10),
 Row(
   mainAxisAlignment: MainAxisAlignment.center,
   children: List.generate(_banners.length, (index) {
     return Container(
       margin: EdgeInsets.symmetric(horizontal: 4),
       width: 10,
       height: 10,
       decoration: BoxDecoration(
         shape: BoxShape.circle,
         color: _currentBannerIndex == index ? Colors.grey[700] :
Colors.grey[400],
       ),
     );
   }),
),
 SizedBox(height: 20),
 Padding(
   padding: EdgeInsets.symmetric(horizontal: 16),
   child: Text(
     "LATEST COLLECTION",
     style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
   ),
),
 SizedBox(height: 10),
 SizedBox(
   height: 150,
   child: ListView.builder(
     scrollDirection: Axis.horizontal,
     itemCount: _latestCollection.length,

```



```

        itemBuilder: (_, index) => Padding(
          padding: EdgeInsets.symmetric(horizontal: 8),
          child: ClipRRect(
            borderRadius: BorderRadius.circular(10),
            child: Image.asset(
              _latestCollection[index],
              width: 150,
              height: 150,
              fit: BoxFit.cover,
            ),
          ),
        ),
      ),
    ),
  ),
  SizedBox(height: 20),
  Padding(
    padding: EdgeInsets.symmetric(horizontal: 16),
    child: Text(
      "SOULFUL BESTSELLERS",
      style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
    ),
  ),
  SizedBox(height: 10),
  SizedBox(
    height: 270,
    child: ListView.builder(
      scrollDirection: Axis.horizontal,
      itemCount: _bestsellers.length,
      itemBuilder: (_, index) => Padding(
        padding: EdgeInsets.symmetric(horizontal: 8),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            ClipRRect(
              borderRadius: BorderRadius.circular(10),

```

```

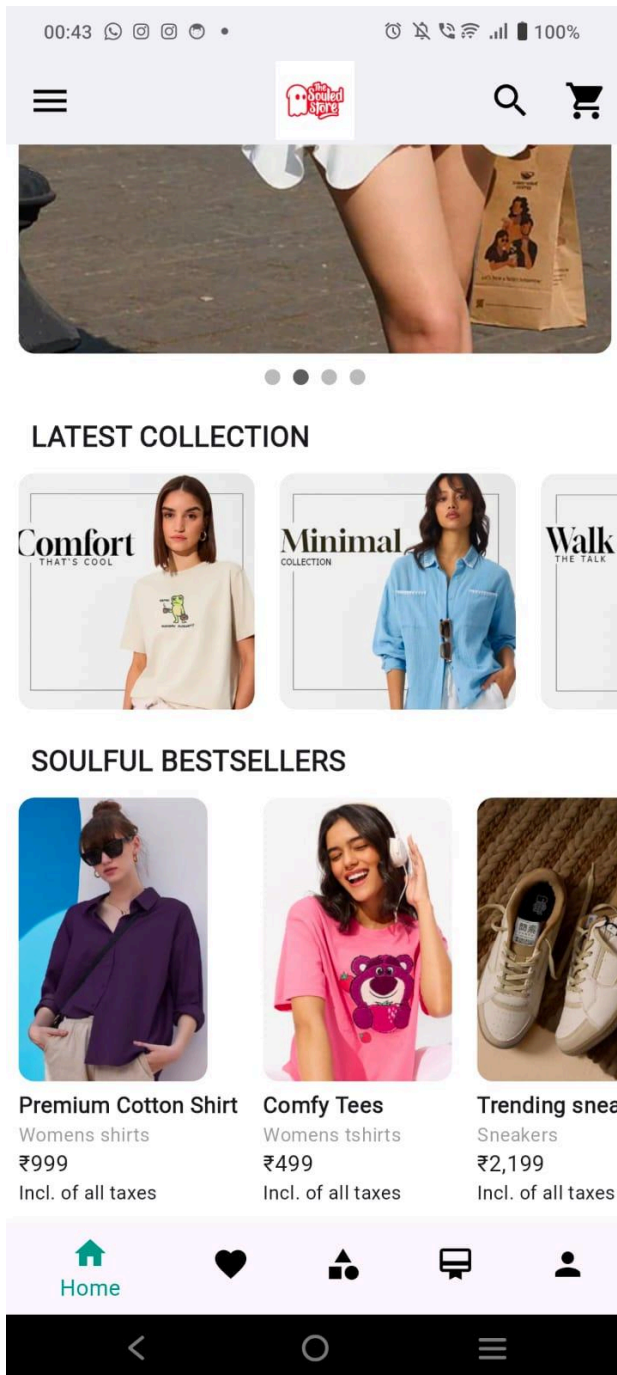
        child: Image.asset(
          _bestsellers[index]['image']!,
          width: 120,
          height: 180,
          fit: BoxFit.cover,
        ),
      ),
      SizedBox(height: 5),
      Text(_bestsellers[index]['name']!,
        style: TextStyle(fontSize: 14, fontWeight:
FontWeight.bold)),
      Text(_bestsellers[index]['category']!,
        style: TextStyle(fontSize: 12, color:
Colors.grey)),
      Text(_bestsellers[index]['mrp']!, style:
TextStyle(fontSize: 14)),
      Text(_bestsellers[index]['tax']!, style:
TextStyle(fontSize: 12)),
    ],
  ),
),
),
),
),
],
),
),
bottomNavigationBar: BottomNavigationBar(
  currentIndex: _selectedIndex,
  onTap: _onItemTapped,
  selectedItemColor: Colors.teal,
  unselectedItemColor: Colors.black,
  items: [
    BottomNavigationBarItem(icon: Icon(Icons.home), label: "Home"),
    BottomNavigationBarItem(icon: Icon(Icons.favorite), label:
"Wishlist"),
    BottomNavigationBarItem(icon: Icon(Icons.category), label:

```

```
"Categories"),  
        BottomNavigationBarItem(icon: Icon(Icons.card_membership), label:  
"Membership"),  
        BottomNavigationBarItem(icon: Icon(Icons.person), label:  
"Profile"),  
    ],  
    ),  
    );  
}
```

Output:

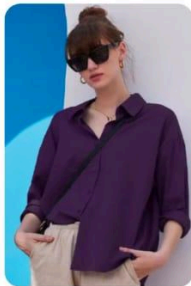




LATEST COLLECTION



SOULFUL BESTSELLERS



Premium Cotton Shirt

Womens shirts

₹999

Incl. of all taxes



Comfy Tees

Womens tshirts

₹499

Incl. of all taxes



Trending sneal

Sneakers

₹2,199

Incl. of all taxes





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