

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:

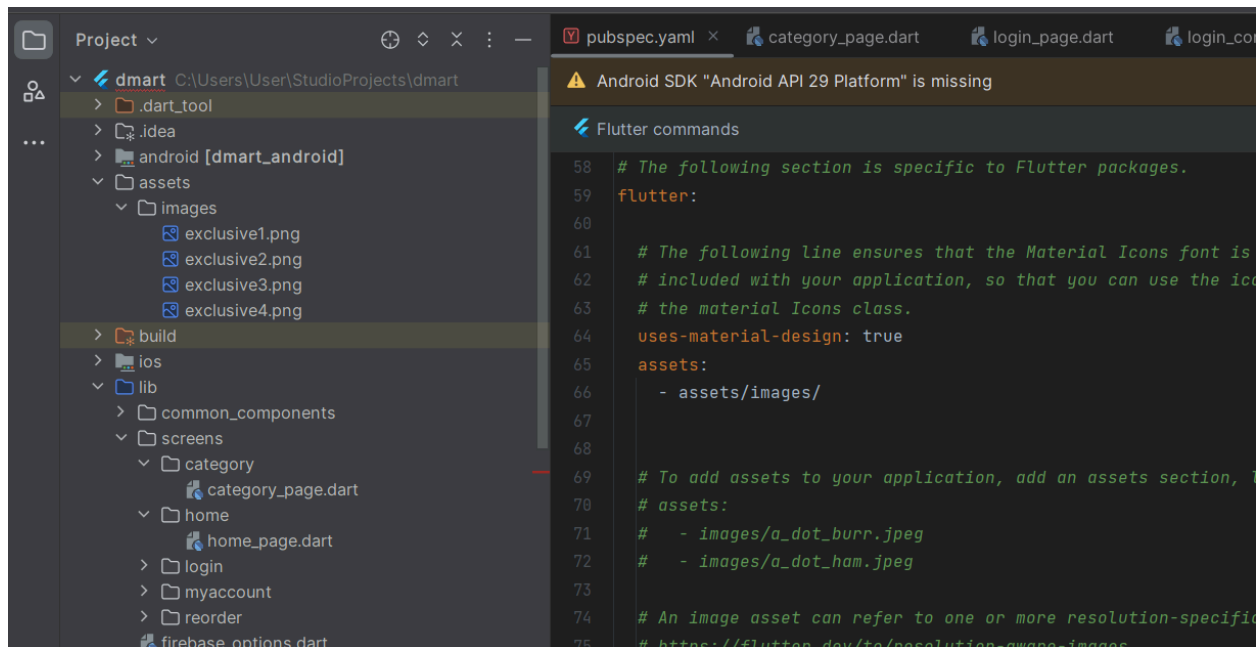
Step 1: Create an `assets` folder inside the project directory. Inside the `assets` folder, create an `images` folder and add the required images.

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_page.dart
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:dmart/screens/login/login_page.dart';
import 'package:carousel_slider/carousel_slider.dart';
import 'package:dmart/common_components/header.dart';
import 'package:dmart/common_components/sidebar.dart';

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

  Future<void> _logout(BuildContext context) async {
    await FirebaseAuth.instance.signOut();

    // Clear login state from shared preferences
    SharedPreferences prefs = await SharedPreferences.getInstance();
    await prefs.setBool('isLoggedIn', false);

    Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => const LoginPage()),
    );
  }

  @override
  Widget build(BuildContext context) {
    // Image Lists
    final List<String> dmartExclusiveImages = [
      'assets/images/exclusive1.png',
      'assets/images/exclusive2.png',
      'assets/images/exclusive3.png',
      'assets/images/exclusive4.png',
    ];

    final List<String> bestOfferImages = [
```

```

'https://clensta.com/cdn/shop/files/mob-banner4_600x.jpg?v=1737626058'
,

'https://rukminim2.flixcart.com/fk-p-harbour/600/600/images/incom/images/product/Nivea-Body-Lotion-Buy-3-Get-1-Free-Aloe-Hydration-2-x-75-ml-Extra-Whitening-75-mlBody-Milk-75-ml-1601886438-10076795-1.jpg?q=60',
];
return Scaffold(
  appBar: const Header(),
  drawer: Sidebar(),
  body: SingleChildScrollView(
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        // Parade of Deals Banner
        SizedBox(
          width: double.infinity,
          child: Image.network(

'https://cdn.dmart.in/images/rwd-mobile/banners/curated/29jan25-curate
d-budget-hp.jpg',
            fit: BoxFit.cover, // Ensures the image covers the
full space
          ),
        ),

        // Dmart Exclusive
        const Padding(
          padding: EdgeInsets.all(16.0),
          child: Text(
            'Dmart Exclusive',
            style: TextStyle(fontSize: 20, fontWeight:
FontWeight.bold),
          ),
        ),
        CarouselSlider(
          options: CarouselOptions(enableInfiniteScroll: false),

```

```

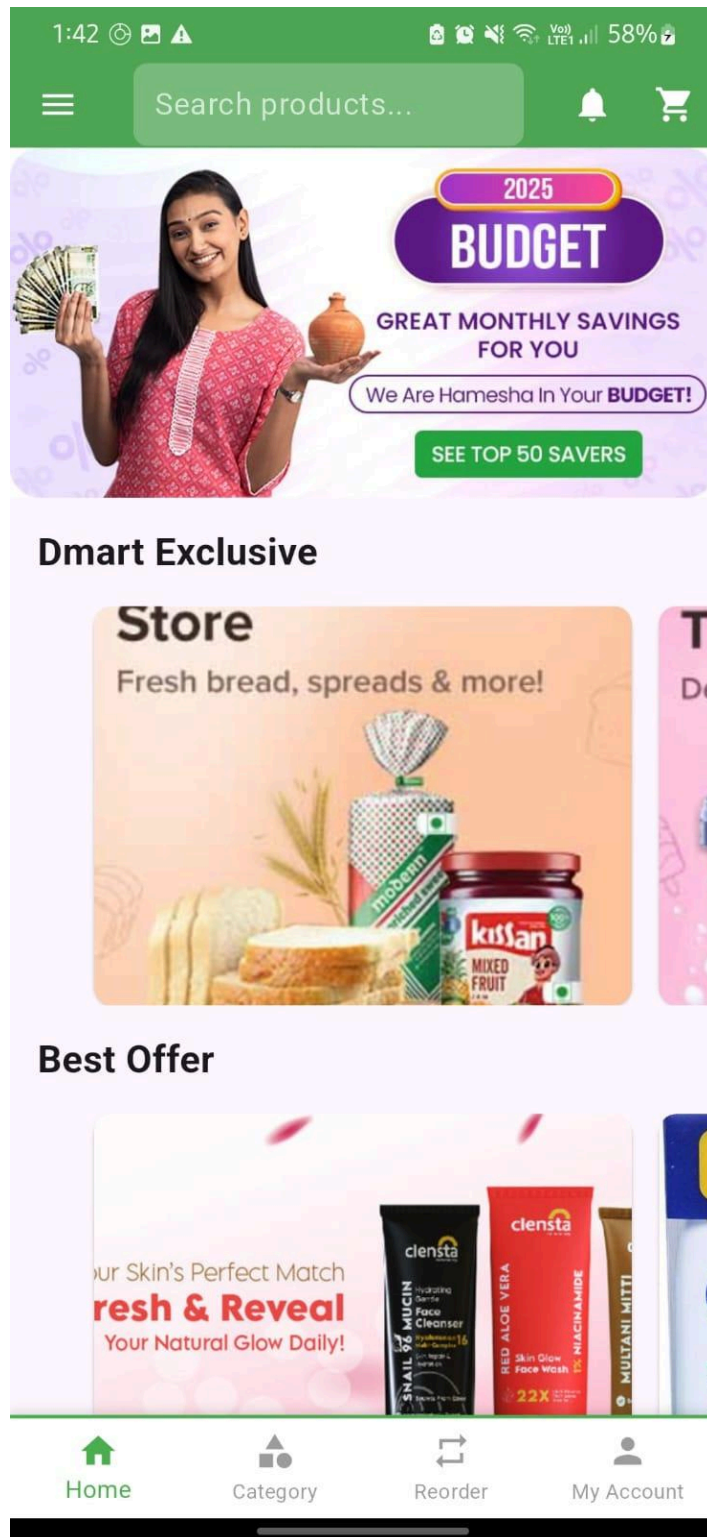
        items: dmartExclusiveImages.map((imagePath) {
            return Card(
                margin: const EdgeInsets.symmetric(horizontal: 8),
                child: ClipRRect(
                    borderRadius: BorderRadius.circular(10),
                    child: Image.asset(imagePath, fit: BoxFit.cover,
width: double.infinity),
                ),
            );
        }).toList(),
    ),

    // Best Offer
    const Padding(
        padding: EdgeInsets.all(16.0),
        child: Text(
            'Best Offer',
            style: TextStyle(fontSize: 20, fontWeight:
FontWeight.bold),
        ),
    ),
    CarouselSlider(
        options: CarouselOptions(enableInfiniteScroll: false),
        items: bestOfferImages.map((imageUrl) {
            return Card(
                margin: const EdgeInsets.symmetric(horizontal: 8),
                child: ClipRRect(
                    borderRadius: BorderRadius.circular(10),
                    child: Image.network(
                        imageUrl,
                        width: double.infinity,
                        fit: BoxFit.cover,
                    ),
                ),
            );
        }).toList(),
    ),
],

```

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

Output:



7:24

100%

Shop By Category



Dairy &
Beverages

Electronics &
Appliances

Grocery

Home &
Kitchen

Packaged
Foods

Sports &
Fitness



Juices



Soft Drinks



Milk & Dairy



Tea & Coffee



Home



Category



Reorder



My Account

7:44

100%



Cooking Oil



Fortune Sunlite Sunflower Oil

Qty: 910 g

DMart: ₹150

~~MRP: ₹190~~

₹40 OFF



ADD



Gemini Refined Sunflower Oil

Qty: 4.550 kg

DMart: ₹782

~~MRP: ₹990~~

₹208 OFF



ADD



Dhara Refined Sunflower Oil

Qty: 13.65 kg

DMart: ₹2219

~~MRP: ₹2970~~

₹751 OFF



ADD



Dalda Refined Sunflower Oil

Qty: 910 g

DMart: ₹142

~~MRP: ₹185~~

₹43 OFF



ADD