

MPL Experiment 3

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

Theory:

Including icons, images, and custom fonts in a Flutter app enhances visual appeal and user experience. Icons can be added using the Icon widget with built-in Icons class or custom icons via the flutter_launcher_icons package.

Images can be loaded from assets using the Image.asset() method or from the internet using Image.network().

To use local images, they must be placed in the assets folder and declared in pubspec.yaml.

Custom fonts improve typography and branding; they can be added by placing font files in the assets/fonts directory and specifying them in pubspec.yaml under the flutter section.

Using TextStyle with the fontFamily property applies the custom font to text.

Code:

```
import 'package:flutter/material.dart';
import '../screens/sign_in_page.dart';
import '../screens/cart_page.dart';
import '../widgets/category_list.dart';
import '../widgets/product_grid.dart';

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

class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

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

class HomeScreen extends StatefulWidget {
  const HomeScreen({Key? key}) : super(key: key);
```

```

    @override
    _HomeScreenState createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  int _currentIndex = 0;
  final List<Widget> _pages = [
    HomeContent(),
    CategoryList(),
    ProductGrid(),
    SignInPage(),
  ];

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Colors.blueAccent,
        title: Row(
          children: [
            Expanded(
              child: TextField(
                decoration: InputDecoration(
                  hintText: 'Search',
                  border: InputBorder.none,
                  prefixIcon: Icon(Icons.search, color: Colors.white),
                ),
              ),
            ),
          ],
        ),
      ),
      actions: [
        IconButton(
          icon: Icon(Icons.shopping_cart, color: Colors.white),
          onPressed: () {
            Navigator.push(
              context, MaterialPageRoute(builder: (context) => CartPage()));
          },
        ),
      ],
      body: _pages[_currentIndex],
    );
  }
}

```

```

bottomNavigationBar: BottomNavigationBar(
  currentIndex: _currentIndex,
  type: BottomNavigationBarType.fixed,
  selectedItemColor: Colors.blueAccent,
  unselectedItemColor: Colors.grey,
  onTap: (index) {
    setState(() {
      _currentIndex = index;
    });
  },
  items: [
    BottomNavigationBarItem(icon: Icon(Icons.home), label: 'Home'),
    BottomNavigationBarItem(icon: Icon(Icons.category), label: 'Categories'),
    BottomNavigationBarItem(icon: Icon(Icons.shopping_bag), label: 'Orders'),
    BottomNavigationBarItem(icon: Icon(Icons.person), label: 'Profile'),
  ],
),
);
}
}

```

```

class HomeContent extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return SingleChildScrollView(
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Padding(
            padding: const EdgeInsets.all(8.0),
            child: Row(
              children: [
                Icon(Icons.location_on, color: Colors.black54),
                SizedBox(width: 5),
                Text("Mumbai 400020", style: TextStyle(fontSize: 16)),
                Spacer(),
                Icon(Icons.arrow_drop_down, color: Colors.black54),
              ],
            ),
          ),
          SizedBox(height: 10),
          Container(
            height: 150,
            margin: EdgeInsets.symmetric(horizontal: 10),

```

```

        decoration: BoxDecoration(
          borderRadius: BorderRadius.circular(10),
          image: DecorationImage(
            image: AssetImage('assets/banner.jpg'),
            fit: BoxFit.cover,
          ),
        ),
      ),
    ),
    SizedBox(height: 10),
    Padding(
      padding: const EdgeInsets.symmetric(horizontal: 10.0),
      child: Text(
        "BEST DEALS",
        style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
      ),
    ),
    SizedBox(height: 20),
    Wrap(
      spacing: 16,
      runSpacing: 16,
      alignment: WrapAlignment.center,
      children: [
        _dealCard(context, 'Up to 50% Off', 'Biscuits,Drinks', 'assets/biscuit.png'),
        _dealCard(context, 'Up to 30% Off', 'Dairy Items', 'assets/dairy.png'),
        _dealCard(context, 'Up to 25% Off', 'Fruit & Vegetable', 'assets/fruits.png'),
        _dealCard(context, 'Up to 25% Off', 'Personal Care', 'assets/personal care.png'),
        _dealCard(context, 'Up to 20% Off', 'Beauty Products', 'assets/beauty.png'),
        _dealCard(context, 'Up to 20% Off', 'Home Care', 'assets/home care.png'),
      ],
    ),
    SizedBox(height: 10),
    Container(
      height: 150,
      margin: EdgeInsets.symmetric(horizontal: 10),
      decoration: BoxDecoration(
        borderRadius: BorderRadius.circular(10),
        image: DecorationImage(
          image: AssetImage('assets/banner2.png'),
          fit: BoxFit.cover,
        ),
      ),
    ),
    ),
    SizedBox(height: 20),

```

```

        ],
      ),
    );
  }

Widget _dealCard(BuildContext context, String discount, String title, String asset) {
  return GestureDetector(
    onTap: () {
      Navigator.push(
        context, MaterialPageRoute(builder: (context) => ProductGrid()));
    },
    child: Column(
      children: [
        Container(
          height: 80,
          width: 80,
          decoration: BoxDecoration(
            image: DecorationImage(image: AssetImage(asset), fit: BoxFit.cover),
          ),
        ),
        SizedBox(height: 5),
        Text(discount, style: TextStyle(color: Colors.green, fontSize: 12)),
        Text(title, style: TextStyle(fontSize: 14, fontWeight: FontWeight.bold)),
      ],
    ),
  );
}

class CartPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("My Cart")),
      body: Center(child: Text("Your cart is empty")),
    );
  }
}

```

Output:

23:13



11.0 KB/S



Search



**LOWEST PRICES
ON GROCERY**
**10-30 MINUTE
DELIVERY**

Download the App Now



BEST DEALS



Up to 50% Off
Biscuits, Drinks



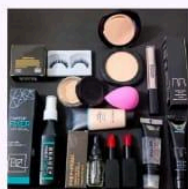
Up to 30% Off
Dairy Items



Up to 25% Off
Fruit & Vegetable



Up to 25% Off
Personal Care



Up to 20% Off
Beauty Products



Up to 20% Off
Home Care

Get Grocery at Incredibly LOW PRICES.

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