

**EXPERIMENT NO: - 03**

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**AIM: -** To include icons, images, fonts in Flutter app.

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**Theory: -**

Flutter is a versatile open-source UI framework , which allows developers to build natively compiled applications for mobile, web, and desktop platforms from a single codebase. One of the key strengths of Flutter is its flexibility in creating highly customizable UIs. This practical focuses on incorporating essential visual elements—icons, images, and custom fonts—into a Flutter application. These elements enhance the visual appeal and usability of the app, providing an engaging experience for users.

A flutter app when built has both assets (resources) and code. Assets are available and deployed during runtime. The asset is a file that can include static data, configuration files, icons, and images. The Flutter app supports many image formats, such as JPEG, WebP, PNG, GIF, animated WebP/GIF, BMP, and WBMP.

Visual elements play a significant role in app development.

- **Enhanced User Experience:** Images and icons make your app visually appealing and user-friendly.
- **Information Conveyance:** They convey information quickly and intuitively. A well-chosen icon can replace lengthy text.
- **Branding:** Custom icons and images reinforce your app's branding, making it memorable.

➤ **Adding Icons in Flutter**

Flutter provides built-in material design icons through the Icons class. Custom icons can also be added using third-party packages such as flutter\_launcher\_icons and font\_awesome\_flutter.

```
Icon(  
  Icons.home,  
  size: 40,  
);
```

## ➤ Adding Images in Flutter

Flutter supports images from three sources:

### 1. **Assets** (Stored locally in the project)

- Place the image inside the assets/images folder in the project.
- Declare the image in pubspec.yaml

```
flutter:
  assets:
    - assets/images/sample.png
```

- Display the image in the app

```
Image.asset('assets/images/sample.png');
```

### 2. **Network** (Fetched from the internet)

Displaying images from the internet or network is very simple. Flutter provides a built-in method `Image.network` to work with images from a URL. The `Image.network` method also allows you to use some optional properties, such as height, width, color, fit, and many more.

```
Image.network('https://example.com/sample.jpg');
```

### 3. **Memory or File** (Stored on the device)

## ➤ Adding Custom Fonts in Flutter

By default, Flutter uses the Roboto font, but custom fonts can be added for a unique UI.

- Download the font and place it in the assets/fonts/ folder.
- Declare the font in pubspec.yaml
- Use the font in the app

```
Text(
  'Custom Font Example',
  style: TextStyle(fontFamily: 'CustomFont', fontSize: 24),
);
```

```

Code:
Booking_screen.dart
import 'package:flutter/material.dart';

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

  @override
  Widget build(BuildContext context) {
    return DefaultTabController(
      length: 2,
      child: Scaffold(
        appBar: AppBar(
          title: const Text('Bookings & plans'),
          bottom: const TabBar(
            tabs: [
              Tab(text: 'UPCOMING'),
              Tab(text: 'HISTORY'),
            ],
            labelColor: Colors.purple,
            unselectedLabelColor: Colors.grey,
          ),
        ),
        body: TabBarView(
          children: [
            _buildUpcomingBookings(),
            _buildBookingHistory(),
          ],
        ),
      ),
    );
  }
}

Widget _buildUpcomingBookings() {
  return ListView.builder(
    itemCount: 2,
    itemBuilder: (context, index) {
      return Card(
        margin: const EdgeInsets.all(8),
        child: ListTile(
          title: Text('Booking ${index + 1}'),
          subtitle: const Text('Upcoming service details'),
          trailing: const Text('₹499'),
        ),
      );
    },
  );
}

Widget _buildBookingHistory() {
  return ListView.builder(
    itemCount: 5,
    itemBuilder: (context, index) {
      return Card(
        margin: const EdgeInsets.all(8),
        child: ListTile(
          title: Text('Past Booking ${index + 1}'),

```

```

        subtitle: const Text('Completed'),
        trailing: const Text('₹699'),
      ),
    );
  },
);
}
}

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

```

### **Summary\_screen.dart: -**

```

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

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

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(

```

```

        title: const Text('Summary'),
        leading: IconButton(
          icon: const Icon(Icons.arrow_back),
          onPressed: () {
            Navigator.pop(context);
          },
        ),
      ),
    ),
    body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Column(
        crossAxisAlignment:
          CrossAxisAlignment.start,
        children: [
          const Text(
            'Your Selected Services',
            style: TextStyle(
              fontSize: 20,
              fontWeight: FontWeight.bold,
            ),
          ),
          const SizedBox(height: 16),
          Card(
            margin: const
              EdgeInsets.symmetric(vertical: 8.0),
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(12),
            ),
            child: Padding(
              padding: const EdgeInsets.all(12.0),
              child: Row(

```

```

    children: [
      ClipRRect(
        borderRadius:
BorderRadius.circular(8),
        child: Image.asset(
          'assets/images/services/men_salon.jpg', // Replace with actual image path
          width: 80,
          height: 80,
          fit: BoxFit.cover,
        ),
      ),
      const SizedBox(width: 12),
      Expanded(
        child: Column(
          crossAxisAlignment:
CrossAxisAlignment.start,
          children: const [
            Text(
              'Service Title',
              style: TextStyle(
                fontSize: 16,
                fontWeight: FontWeight.bold,
              ),
            ),
            SizedBox(height: 8),
            Text('Duration: 30 mins'),
            SizedBox(height: 8),
            Text(
              '₹500',
              style: TextStyle(
                fontSize: 14,
                fontWeight: FontWeight.bold,
                color: Colors.green,
              ),
            ),
          ],
        ),
      ),
      const SizedBox(width: 12),
      ElevatedButton(
        onPressed: () {
          Navigator.push(
            context,
            MaterialPageRoute(builder: (context) =>
BookingSuccessPage()),
          );
        },
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.green,
          minimumSize: const Size(double.infinity,
50),
          shape: RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(8),
          ),
        ),
        child: const Text(
          'Proceed to Payment',

```

```

        style: TextStyle(fontSize: 18),
      ),
    ),
  ],
),
);
}
}

```

## Booking\_success.dart:

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

```

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

```

```
@override
```

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

```
  return Scaffold(
```

```
    appBar: AppBar(
```

```
      title: const Text('Booking Successful'),
```

```
    ),
```

```
    body: Center(
```

```
      child: Padding(
```

```
        padding: const EdgeInsets.all(16.0),
```

```
        child: Column(
```

```
          mainAxisAlignment:
```

```
MainAxisAlignment.center,
```

```
children: [
```

```
  const Icon(
```

```
    Icons.check_circle,
```

```
    color: Colors.green,
```

```
    size: 100,
```

```
),
```

```
const SizedBox(height: 16),
```

```
const Text(
```

```
  'Thank you for your booking!',
```

```
  style: TextStyle(
```

```
    fontSize: 20,
```

```
    fontWeight: FontWeight.bold,
```

```
),
```

```
),
```

```
const SizedBox(height: 8),
```

```
const Text(
```

```
  'Your payment of ₹500 was successful.',
```

```
  style: TextStyle(fontSize: 16),
```

```
),
```

```
const SizedBox(height: 16),
```

```
ElevatedButton(
```

```
  onPressed: () {
```

```
    Navigator.popUntil(context, (route) =>
    route.isFirst);
```

```
  },
```

```
  style: ElevatedButton.styleFrom(
```

```
    backgroundColor: Colors.purple,
```

```
    minimumSize: const Size(double.infinity,
```

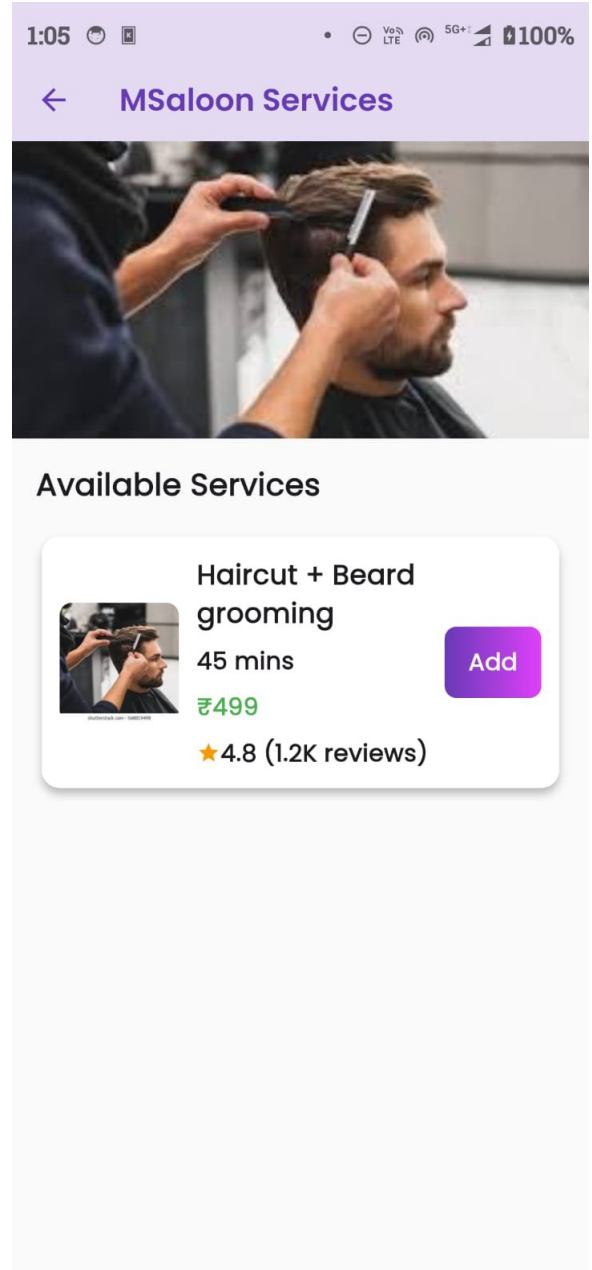
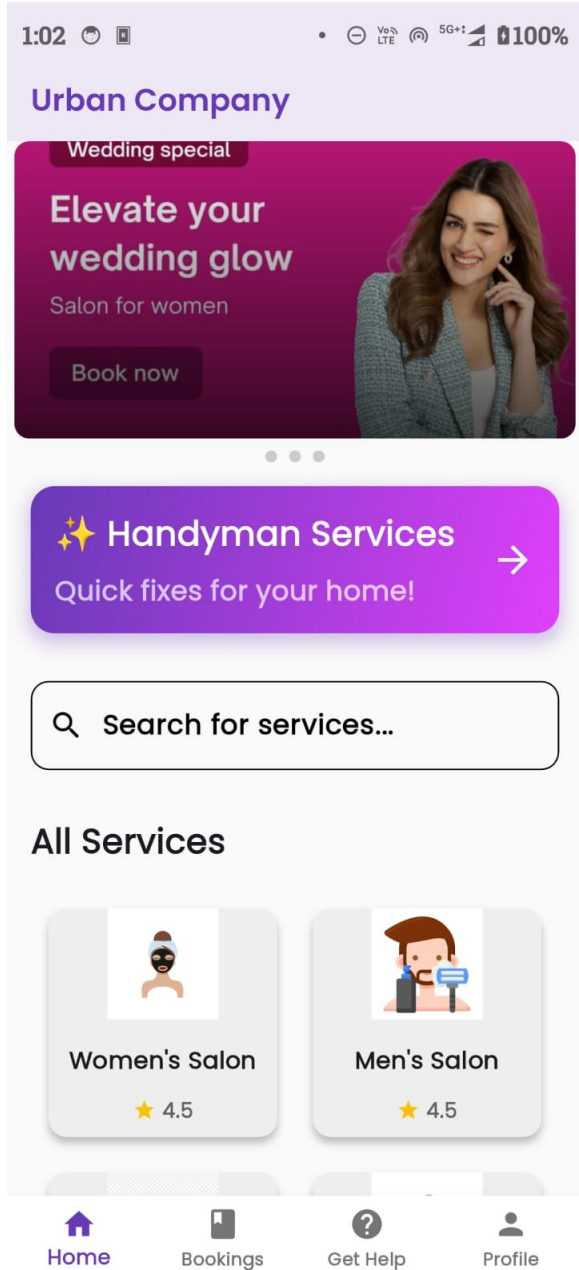
```
50),
```

```
    shape: RoundedRectangleBorder(
```

```
      borderRadius: BorderRadius.circular(8),
```

```
    ),  
    ),  
    child: const Text('Go to Home'),  
    ),  
  ],  
),  
),  
),  
);  
}  
}
```


**OUTPUT: -**







 Date: 2025-02-26 04:32:00.000 >  
Price: ₹300

 grooming >  
Date: 2025-02-24 23:11:00.000  
Price: ₹499