EXPERIMENT NO: - 03

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

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

```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: -

```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(
```
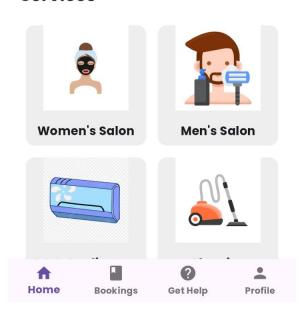
```
title: const Text('Summary'),

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.jpe
g', // 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 Spacer(),

      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,                                  child: const Text('Go to Home'),

        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),

          ),
```

OUTPUT: -

Urban Company

Elevate your wedding glow
Salon for women

Book now

Search for services...

Services

Women's Salon

Men's Salon

Home | Bookings | Get Help | Profile

Cleaning Services

Available Services

House Cleaning Services
120 mins
₹1499
★ 4.6 (2.8K reviews)

Add

RIGHT OVERFLOWED BY 7.2 PIXELS

9:42

Summary

Your Selected Services

Service Title
Duration: 30 mins
₹500

Proceed to Payment

9:44

Booking Successful

✓
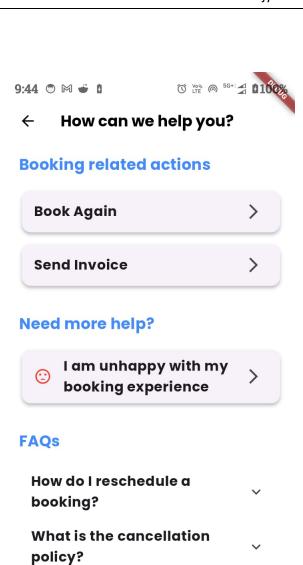
Thank you for your booking!

Your payment of ₹500 was successful.

Go to Home

9:44

← How can we help you?

Booking related actions

Book Again   ❯

Send Invoice   ❯

Need more help?

☹ I am unhappy with my booking experience   ❯

FAQs

How do I reschedule a booking?   ⌄

What is the cancellation policy?   ⌄

How can I contact customer support?   ⌄

9:46

← Bookings & plans

| UPCOMING | HISTORY |

Booking 1
Upcoming service details   ₹499

Booking 2
Upcoming service details   ₹499