

**EXPERIMENT NO : 03****Name : Anushka Shahane****Class:- D15A****Roll:No : 54****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: - home\_screen.dart**

```

import 'package:flutter/material.dart';
import 'package:intl/intl.dart';
import 'details_form_screen.dart';

class HomeScreen extends StatefulWidget {
  @override
  _HomeScreenState createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  int _selectedIndex = 0;
  String _selectedDate = "Select date";

  void _onBottomNavTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }

  Future<void> _selectDate(BuildContext context) async {
    DateTimeRange? picked = await showDateRangePicker(
      context: context,
      firstDate: DateTime.now(),
      lastDate: DateTime(2030),
    );

    if (picked != null) {
      setState(() {
        _selectedDate =
          "${DateFormat('E dd MMM').format(picked.start)} -
          ${DateFormat('E dd MMM').format(picked.end)}";
      });
    }
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.grey[100],
      appBar: AppBar(
        backgroundColor: Colors.blue[900],
        title: Text(
          'Booking.com',
          style: TextStyle(
            color: Colors.white, fontWeight: FontWeight.bold,
            fontSize: 18),
        ),
      ),
      actions: [
        IconButton(
          icon: Icon(Icons.notifications, color: Colors.white),
          onPressed: () {},
        ),

```

```

        IconButton(
          icon: Icon(Icons.account_circle, color:
Colors.white),
          onPressed: () {},
        ),
      ],
    ),
    body: SingleChildScrollView(
      child: Padding(
        padding: const EdgeInsets.all(12),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            // **Category Title**
            Row(
              mainAxisAlignment:
MainAxisAlignment.center,
              children: [
                Icon(Icons.hotel, color: Colors.blue[900],
size: 24),
                SizedBox(width: 8),
                Text(
                  "Find your stays",
                  style: TextStyle(
                    color: Colors.blue[900],
                    fontSize: 14,
                    fontWeight: FontWeight.bold,
                  ),
                ),
              ],
            ),
            SizedBox(height: 15),

            // **Search Section**
            Container(
              padding: EdgeInsets.all(12),
              decoration: BoxDecoration(
                borderRadius: BorderRadius.circular(10),
                border: Border.all(color: Colors.orange,
width: 2),
                color: Colors.white,
              ),
              child: Column(
                children: [
                  _buildSearchField(Icons.search, "Enter your
destination"),
                  GestureDetector(
                    onTap: () => _selectDate(context),
                    child: _buildSearchField(
                      Icons.calendar_today,
                      _selectedDate,

```

```

    SizedBox(height: 10),
      ElevatedButton(
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.blue[900],
          padding:
            EdgeInsets.symmetric(vertical: 12, horizontal:
80),
        ),
        onPressed: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => DetailsFormScreen(),
            );
          },
        child: Text("Search",
          style: TextStyle(color: Colors.white, fontSize:
14)),
      ),
    ],
  ),
),
),

    SizedBox(height: 15),

    // **Discount Section**
    Text(
      "Exclusive Discounts",
      style: TextStyle(fontSize: 14, fontWeight: FontWeight
.bold),
    ),
    SizedBox(height: 8),
    SizedBox(
      height: 110,
      child: ListView(
        scrollDirection: Axis.horizontal,
        children: [
          _buildDiscountCard(
            "10% discounts on stays", "Enjoy discounts
worldwide"),
          _buildDiscountCard(
            "10% off rental cars", "Save on select rental cars"),
          _buildDiscountCard(
            "Exclusive flight deals", "Best fares for
members"),
        ],
      ),
    ),

    SizedBox(height: 15),

    // **Deals Section**
    Text(
      "Deals for the weekend",

```

```

style: TextStyle(fontSize: 14, fontWeight:
FontWeight.bold),
    ),
    Text(
      "Save on stays for 31 January - 2 February",
      style: TextStyle(fontSize: 12),
    ),

    SizedBox(height: 8),
    SizedBox(
      height: 160,
      child: ListView(
        scrollDirection: Axis.horizontal,
        children: [
          _buildDealCard(
            "Paris, France",
            "Starting from \$120/night",
            "https://thumbs.dreamstime.com/b/paris-
eiffel-tower-river-seine-sunset-france-one-most-iconic-
landmarks-107376702.jpg",
          ),
          _buildDealCard(
            "New York, USA",
            "Starting from \$150/night",
            "https://t3.ftcdn.net/jpg/02/09/70/56/360_
F_209705645_b78HGJI1i1mxqLwMYA7z1m3VvCxxg
JFO.jpg",
          ),
          _buildDealCard(
            "Tokyo, Japan",
            "Starting from \$130/night",
            "https://media.istockphoto.com/id/484915
982/photo/akihabara-
tokyo.jpg?s=612x612&w=0&k=20&c=kbCRYJS5vZu
F4jLB3y4-apNebcCEkWNDbKPpxXdf9Cg=",
          ),
        ],
      ),
    ),

    // **Bottom Navigation Bar**
    bottomNavigationBar: BottomNavigationBar(
      backgroundColor: Colors.white, // Set background
color to white

      currentIndex: _selectedIndex,
      onTap: _onBottomNavTapped,
      selectedItemColor: Colors.blue[900],
      unselectedItemColor: Colors.grey,
      type: BottomNavigationBarType.fixed,

```

```

        icon: Icon(Icons.person, size: 22), label: "My account"),
      ],
    ),
  );
}

```

```

Widget _buildSearchField(IconData icon, String hintText,
  {bool isReadOnly = false}) {
  return Padding(
    padding: EdgeInsets.symmetric(vertical: 4),
    child: TextField(
      readOnly: isReadOnly,
      decoration: InputDecoration(
        prefixIcon: Icon(icon, color: Colors.black54, size: 20),
        hintText: hintText,
        hintStyle: TextStyle(fontSize: 12),
        border: OutlineInputBorder(borderRadius:
BorderRadius.circular(5)),
      ),
    ),
  );
}

```

```

Widget _buildDiscountCard(String title, String subtitle) {
  return Container(
    width: 150,
    margin: EdgeInsets.only(right: 8),
    padding: EdgeInsets.all(8),
    decoration: BoxDecoration(
      color: Colors.white,
      border: Border.all(color: Colors.blue),
      borderRadius: BorderRadius.circular(8),
    ),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Text(title,
          style: TextStyle(fontWeight: FontWeight.bold,
fontSize: 12)),
        SizedBox(height: 4),
        Text(subtitle, style: TextStyle(fontSize: 10)),
      ],
    ),
  );
}

```

```

Widget _buildDealCard(String location, String price,
String imageUrl) {
  return Container(
    width: 180,
    margin: EdgeInsets.only(right: 8),

```

```

padding: EdgeInsets.all(8),
    decoration: BoxDecoration(
      color: Colors.white,
      borderRadius: BorderRadius.circular(8),

```

```

    boxShadow: [

```

```

      BoxShadow(color: Colors.grey.withOpacity(0.2),
        blurRadius: 4)
    ],
  ),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      ClipRRect(

```

```

        borderRadius: BorderRadius.circular(8),

```

```

      child: Image.network(
        imageUrl,
        height: 80,
        width: double.infinity,
        fit: BoxFit.cover,
      ),
    ),
    SizedBox(height: 4),
    Text(location,
      style: TextStyle(fontWeight: FontWeight.bold,
fontSize: 12)),
    SizedBox(height: 4),
    Text(price, style: TextStyle(fontSize: 11, color:
Colors.black54)),
  ],
),
);
}
}

```

**Code : welcome\_screen.dart**

```

import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';
import '../core/routes.dart';
import '../widgets/custom_button.dart';

class WelcomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      appBar: AppBar(
        backgroundColor: const Color(0xFF003580),
// Booking.com Blue
        elevation: 0,
        title: Text(
          "Booking.com",
          style: GoogleFonts.montserrat(
            fontSize: 20,
            fontWeight: FontWeight.w600,
            color: Colors.white,
          ),
        ),
        centerTitle: true,
        leading: IconButton(
          icon: const Icon(Icons.arrow_back,
            color: Colors.white), // Back arrow in
white
          onPressed: () => Navigator.pop(context), //
Navigate back
        ),
        body: SingleChildScrollView(
          child: Padding(
            padding: const
EdgeInsets.symmetric(horizontal: 25, vertical: 40),
            child: Column(
              crossAxisAlignment:
CrossAxisAlignment.start,
              children: [
                // Title
                Text(
                  "Register here",
                ),
                const SizedBox(height: 30),

                border: Border.all(color:
Colors.grey.shade400),
              ),
              child: TextField(
                decoration: InputDecoration(
                  labelText: "Enter your name",
                  labelStyle: GoogleFonts.montserrat(

```

```

const SizedBox(height: 5),
                Text(
                  "We'll use this to create an account if you
don't have one yet.",
                  style: GoogleFonts.montserrat(
                    fontSize: 14,
                    color: Colors.grey[600],
                  ),
                ),
                const SizedBox(height: 30),

                // Email Entry Box
                Container(
                  padding: const
EdgeInsets.symmetric(horizontal: 12),
                  decoration: BoxDecoration(
                    borderRadius: BorderRadius.circular(8),
                    border: Border.all(color:
Colors.grey.shade400),
                  ),
                  child: TextField(
                    decoration: InputDecoration(
                      labelText: "Enter your name",
                      labelStyle: GoogleFonts.montserrat(
                        fontSize: 14, color: Colors.grey[600]),
                      border: InputBorder.none,
                    ),
                  ),
                ),
                const SizedBox(height: 30),

                // Continue Button
                CustomButton(
                  text: "Continue",
                  onTap: () => Navigator.pushNamed(context,
Routes.signUp),
                  backgroundColor: const Color(0xFF003580),
                  textColor: Colors.white,
                ),
                const SizedBox(height: 40),

```

```

Row(
  children: [
    Expanded(child: Divider(color: Colors.grey.shade400)),
    Padding(
      padding: const EdgeInsets.symmetric(horizontal: 10),
      child: Text("OR",
        style: GoogleFonts.montserrat(
          fontSize: 14, color: Colors.black87)),
    ),
    Expanded(child: Divider(color: Colors.grey.shade400)),
  ],
),
const SizedBox(height: 30),

// Continue with Google
CustomButton(
  text: "Continue with Google",
  onTap: () {},
  isOutlined: true,
  textColor: Colors.black,
  borderColor: Colors.grey.shade400,
  iconPath: "assets/images/google.png", // Add Google icon
),
const SizedBox(height: 10),

// Continue with Facebook
CustomButton(
  text: "Continue with Facebook",
  iconPath: "assets/images/facebook.png", // Add Facebook icon
),
const SizedBox(height: 10),
Center(
  child: TextButton(
    onPressed: () => Navigator.pushNamed(context, Routes.signIn),
    child: Text(
      "Already have an account? Sign In",
      style: GoogleFonts.montserrat(
        fontSize: 14,
        fontWeight: FontWeight.w500,
        color: Colors.blue,
      ),
    ),
  ),
),
}
}

```

**Code: hotel\_screen.dart**

```

import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';
import 'package:booking/core/theme.dart';
import 'package:booking/core/routes.dart';

class SplashScreen extends StatefulWidget {
  @override
  _SplashScreenState createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen>
  with SingleTickerProviderStateMixin {
  late AnimationController _controller;
  late Animation<double> _fadeInAnimation;

  @override
  void initState() {
    super.initState();

    _controller = AnimationController(
      vsync: this,
      duration: const Duration(milliseconds: 1200),
    );

    _fadeInAnimation = Tween<double>(begin: 0, end: 1).animate(_controller);

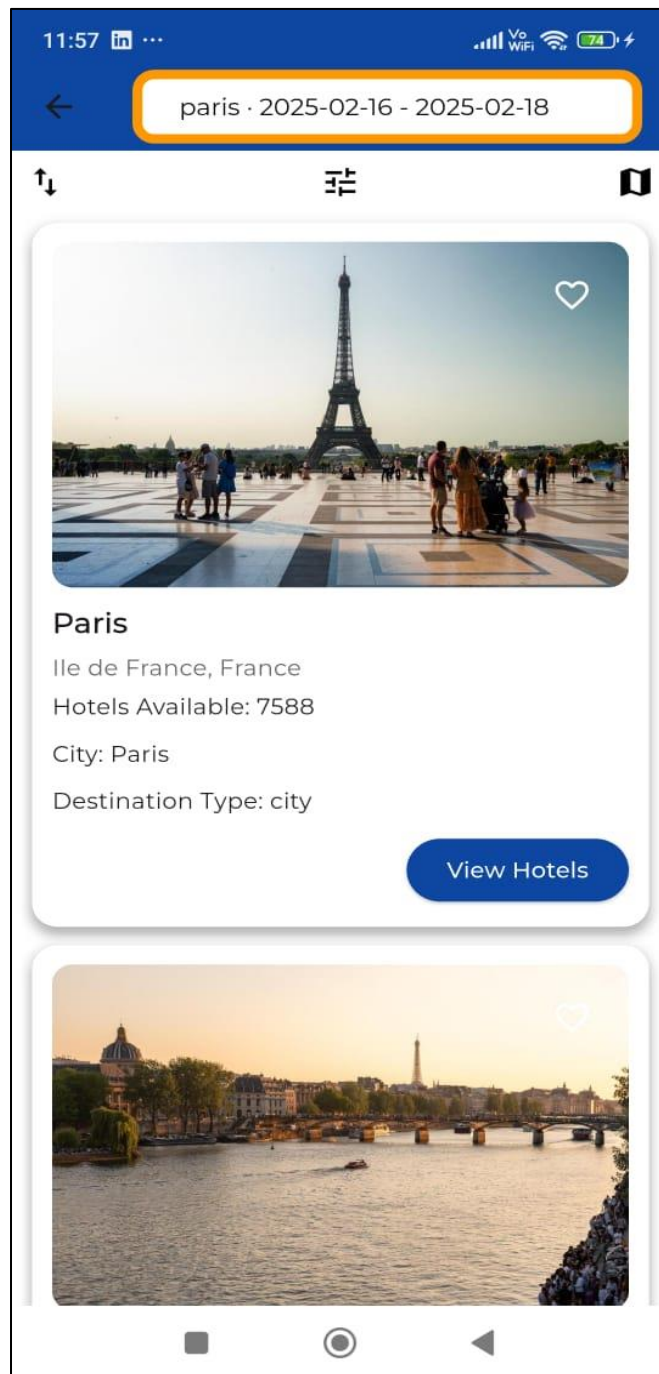
    _controller.forward();

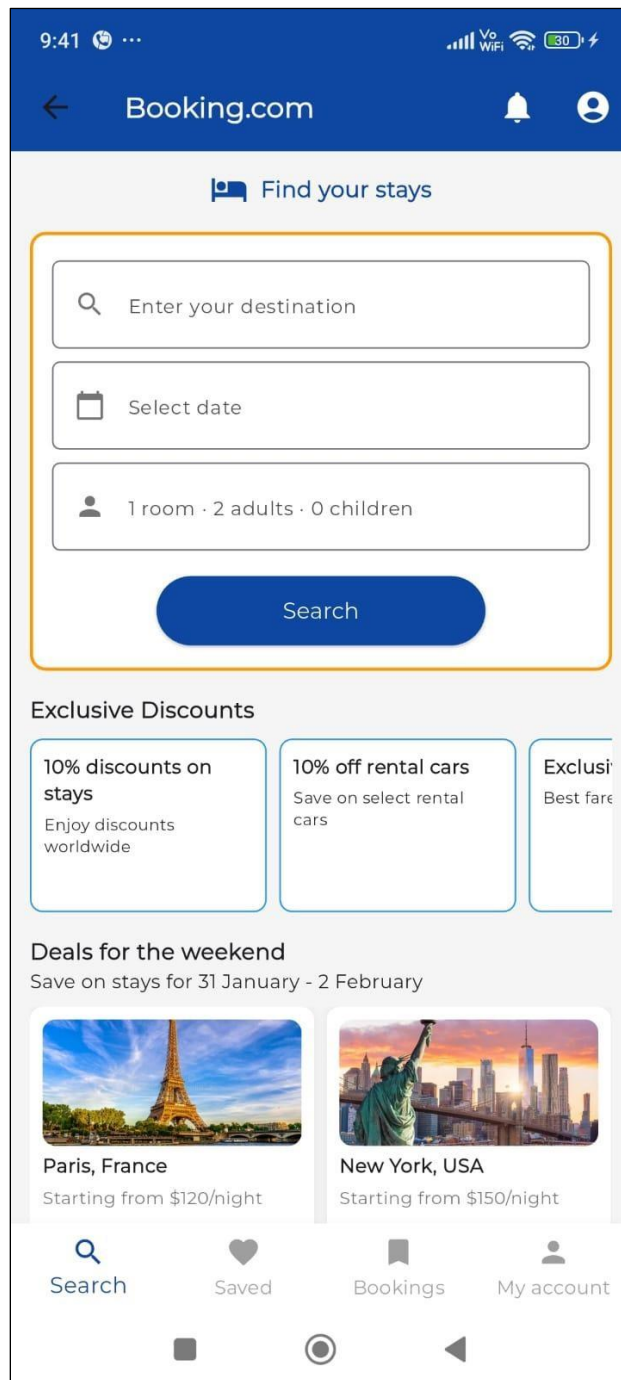
    Future.delayed(const Duration(seconds: 3), () {
      Navigator.pushReplacementNamed(context, Routes.welcome);
    });
  }
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: AppColors.primaryColor,
      body: SafeArea(
        child: Center(
          child: FadeTransition(
            opacity: _fadeInAnimation,
            child: Text(
              "Booking.com",
              style: GoogleFonts.openSans(
                fontSize: 27, // Font size for visibility
                fontWeight: FontWeight.bold, // Using Open Sans Bold
                color: Colors.white,
                letterSpacing: 1.2, // Improved spacing for readability
              ),
            ),
          ),
        ),
      );
  }
  @override
  void dispose() {
    _controller.dispose();
    super.dispose();
  }
}

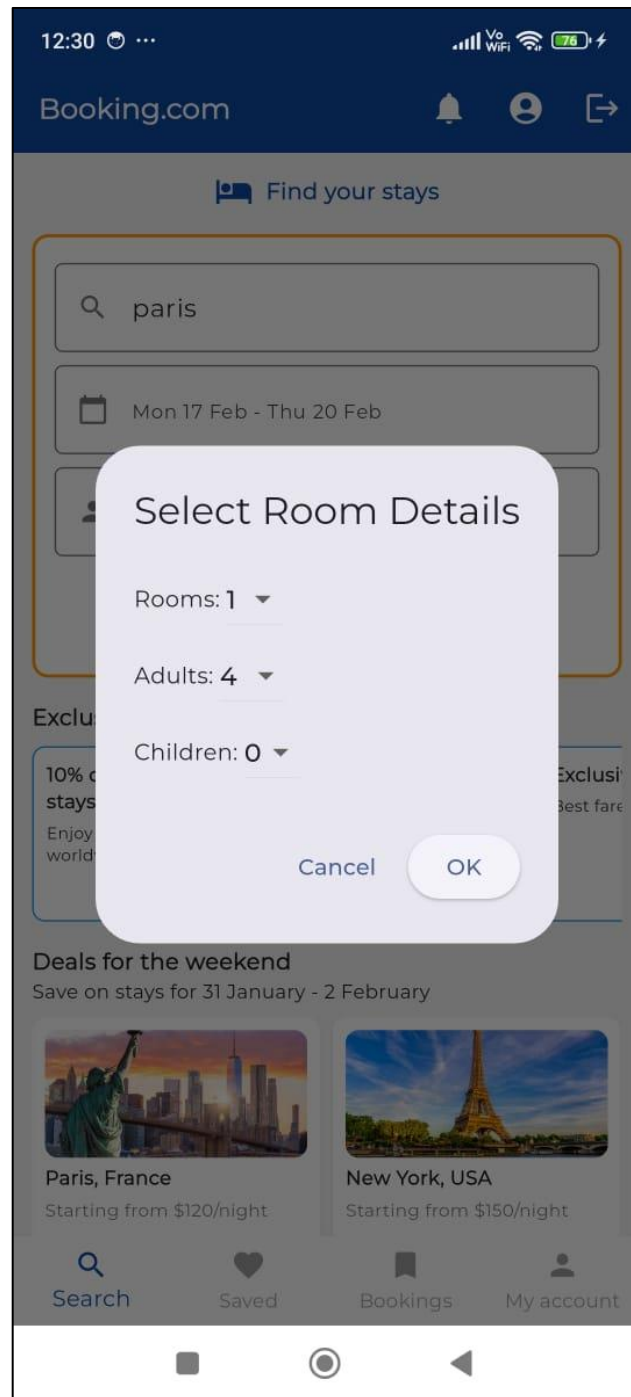
```



## OUTPUT :







✕

Save

Select range

Feb 17 – Feb 19

✎

S	M	T	W	T	F	S
February 2025						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	
March 2025						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

