

MAD & PWA Lab Journal

Experiment No.	03
Experiment Title.	To include image, fonts and icons in flutter app.
Roll No.	37
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Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO1: Understand cross platform mobile application development using Flutter framework
Grade:	

AIM : To include image, fonts and icons in flutter app.

THEORY:

Including Images, Fonts, and Icons in a Flutter App (Theory)

Flutter allows developers to **enhance UI/UX** by including **images, custom fonts, and icons** efficiently. Below is an overview of how each of these assets can be integrated into a Flutter application.

1. Adding Images in Flutter

Flutter supports **both local and network images** for UI components.

Local Images

- Images can be stored in the **assets** folder of the project.
- The pubspec.yaml file needs to be updated to include the images.
- Supported formats: **PNG, JPG, GIF, SVG** (with additional packages like flutter_svg).

Network Images

- Images can be loaded from the internet using URLs.
- Cached network images can be used for better performance.

2. Adding Custom Fonts in Flutter

Custom fonts improve branding and UI aesthetics.

- **Download and store** font files in the **assets/fonts/** directory.
- Declare them in pubspec.yaml under the fonts section.
- Assign the font to specific text styles using the TextStyle widget.

3. Using Icons in Flutter

Icons enhance UI clarity and usability. Flutter supports **built-in icons and custom**

icons. Built-in Icons (Material Icons)

- Flutter provides a rich set of **Material Icons** through the Icons class.
- These icons do not require additional setup.

Custom Icons (SVG, PNG, Font Icons)

- Icons can be added as **SVG** (using flutter_svg package) or **PNG** images.
- Font-based icon sets like **FontAwesome** or **Custom Icon Fonts** can be integrated.

PROGRAM:

main.dart

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

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

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: SplashScreen(),
    );
  }
}
```

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

```
class _SplashScreenState extends State<SplashScreen> {
  @override
  void initState() {
    super.initState();
    Future.delayed(Duration(seconds: 7), () {
      Navigator.pushReplacement(
        context,
        MaterialPageRoute(builder: (context) => LoginSignupPage()),
      );
    });
  }
}
```

```
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.red,
    body: Center(
      child: Image.asset(
        'assets/logo.png',
        width: 150,
        height: 150,
      ),
    ),
  );
}
```

```
class LoginSignupPage extends StatelessWidget {
```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.white,
    appBar: AppBar(
      backgroundColor: Colors.white,
      elevation: 0,
      actions: [
        TextButton(
          onPressed: () {},
          child: Text(
            "SKIP",
            style: TextStyle(color: Colors.black, fontSize: 16),
          ),
        ),
      ],
    ),
    body: Padding(
      padding: const EdgeInsets.symmetric(horizontal: 20),
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Image.asset('assets/logo.png', width: 120, height: 120),
          SizedBox(height: 10),
          Text(
            "Enjoy faster show booking through our recommendations tailored for you.",
            textAlign: TextAlign.center,
            style: TextStyle(fontSize: 14, color: Colors.black54),
          ),
          SizedBox(height: 30),

          // Google Sign-in Button
          ElevatedButton.icon(
            onPressed: () {
              // Navigate to HomePage on Google Sign-in click
              Navigator.push(
                context,
                MaterialPageRoute(builder: (context) => LoginPage()),
              );
            },
            icon: Image.asset('assets/Google.png', width: 24, height: 24),
            label: Text("Login"),
            style: ElevatedButton.styleFrom(
              backgroundColor: Colors.white,
              foregroundColor: Colors.black,
              minimumSize: Size(double.infinity, 50),
              side: BorderSide(color: Colors.black26),
            ),
          ),
          SizedBox(height: 15),

          // Email Sign-in Button

```

```

ElevatedButton.icon(
  onPressed: () {},
  icon: Icon(Icons.email, color: Colors.black),
  label: Text("Sign Up"),
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.white,
    foregroundColor: Colors.black,
    minimumSize: Size(double.infinity, 50),
    side: BorderSide(color: Colors.black26),
  ),
),
),
SizedBox(height: 20),

// Mobile Number Input Field
Container(
  padding: EdgeInsets.symmetric(horizontal: 10),
  decoration: BoxDecoration(
    border: Border.all(color: Colors.black26),
    borderRadius: BorderRadius.circular(8),
  ),
  child: Row(
    children: [
      Image.asset(
        'assets/flag.png', // Use an Indian flag asset
        width: 24,
        height: 24,
      ),
      SizedBox(width: 10),
      Text("+91", style: TextStyle(fontSize: 16, color: Colors.black)),
      SizedBox(width: 10),
      Expanded(
        child: TextField(
          keyboardType: TextInputType.phone,
          decoration: InputDecoration(
            hintText: "Enter mobile number",
            border: InputBorder.none,
          ),
        ),
      ),
    ],
  ),
),
Spacer(),

// Terms & Conditions
Text.rich(
  TextSpan(
    text: "I agree to the ",
    style: TextStyle(fontSize: 12, color: Colors.black54),
    children: [
      TextSpan(

```

```

        text: "Terms & Conditions",
        style: TextStyle(color: Colors.blue, decoration: TextDecoration.underline),
      ),
      TextSpan(text: " and "),
      TextSpan(
        text: "Privacy Policy",
        style: TextStyle(color: Colors.blue, decoration: TextDecoration.underline),
      ),
    ],
  ),
  textAlign: TextAlign.center,
),
 SizedBox(height: 20),
],
),
),
);
}
}


```


SKIP

bookmyshow

Enjoy faster show booking through our
recommendations tailored for you.

 Login

 Sign Up

 +91 Enter mobile number

I agree to the [Terms & Conditions](#) and [Privacy Policy](#)

Login.dart

```
import 'package:flutter/material.dart';
import 'home.dart'; // Import the HomePage file

class LoginPage extends StatelessWidget {
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      appBar: AppBar(
        backgroundColor: Colors.white,
```

```

elevation: 0,
leading: IconButton(
  icon: Icon(Icons.arrow_back, color: Colors.black),
  onPressed: () {
    Navigator.pop(context);
  },
),
),
body: Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20),
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      Image.asset('assets/logo.png', width: 120, height: 120),
      SizedBox(height: 20),
      Text(
        "Welcome Back!",
        style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),
      ),
      SizedBox(height: 10),
      Text(
        "Login to continue",
        style: TextStyle(fontSize: 14, color: Colors.black54),
      ),
      SizedBox(height: 30),
      TextField(
        controller: emailController,
        decoration: InputDecoration(
          labelText: "Email",
          border: OutlineInputBorder(),
        ),
      ),
      SizedBox(height: 15),
      TextField(
        controller: passwordController,
        obscureText: true,
        decoration: InputDecoration(
          labelText: "Password",
          border: OutlineInputBorder(),
        ),
      ),
      SizedBox(height: 20),
      ElevatedButton(
        onPressed: () {
          String email = emailController.text;
          String password = passwordController.text;

          if (email.isNotEmpty && password.isNotEmpty) {
            Navigator.pushReplacement(
              context,
              MaterialPageRoute(builder: (context) => HomePage()),
            );
          }
        },
      ),
    ],
  ),
),
)

```



```

    } else {
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("Please enter email and password")),
      );
    }
  },
  child: Text("Login"),
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.red,
    foregroundColor: Colors.white,
    minimumSize: Size(double.infinity, 50),
  ),
),
SizedBox(height: 15),
TextButton(
  onPressed: () {},
  child: Text(
    "Forgot Password?",
    style: TextStyle(color: Colors.red),
  ),
),
SizedBox(height: 20),
Text("Or login with"),
SizedBox(height: 10),
ElevatedButton.icon(
  onPressed: () {},
  icon: Image.asset('assets/Google.png', width: 24, height: 24),
  label: Text("Login with Google"),
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.white,
    foregroundColor: Colors.black,
    minimumSize: Size(double.infinity, 50),
    side: BorderSide(color: Colors.black26),
  ),
),
],
),
),
);
}
}

```



bookmyshow


Welcome Back!

Login to continue

Login

[Forgot Password?](#)

Or login with

 Login with Google

Home.dart

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

```
class HomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
```

```

return Scaffold(
  appBar: AppBar(
    title: Text('Welcome Guest!'),
    actions: [
      IconButton(icon: Icon(Icons.search), onPressed: () {}),
      IconButton(icon: Icon(Icons.qr_code), onPressed: () {}),
    ],
  ),
  body: SingleChildScrollView(
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        // Location Bar
        Padding(
          padding: const EdgeInsets.symmetric(horizontal: 15, vertical: 5),
          child: Text("Navi Mumbai", style: TextStyle(color: Colors.red)),
        ),

        // Location Enable Bar
        Container(
          width: double.infinity,
          color: Colors.blue,
          padding: EdgeInsets.all(10),
          child: Text(
            "Enable location to discover nearby events, movies, and more.",
            style: TextStyle(color: Colors.white),
            textAlign: TextAlign.center,
          ),
        ),

        SizedBox(height: 10),

        // Categories (Movies, Music Shows, etc.)
        SingleChildScrollView(
          scrollDirection: Axis.horizontal,
          padding: EdgeInsets.symmetric(horizontal: 10),
          child: Row(
            children: [
              _categoryIcon(Icons.movie, "Movies"),
              _categoryIcon(Icons.music_note, "Music Shows"),
              _categoryIcon(Icons.theater_comedy, "Comedy Shows"),
              _categoryIcon(Icons.event, "Plays"),
            ],
          ),
        ),
      ],
    ),
  ),

```

```

        SizedBox(height: 20),
        Padding(
          padding: const EdgeInsets.symmetric(horizontal: 10),
          child: Row(
            children: [
              Expanded(child: Image.asset('assets/event1.jpg', fit: BoxFit.cover)),
              SizedBox(width: 10),
              Expanded(child: Image.asset('assets/event2.jpg', fit: BoxFit.cover)),
            ],
          ),
        ),

        // Recommended Movies Section
        Padding(
          padding: const EdgeInsets.symmetric(horizontal: 15),
          child: Row(
            mainAxisAlignment: MainAxisAlignment.spaceBetween,
            children: [
              Text("Recommended Movies", style: TextStyle(fontSize: 18, fontWeight:
FontWeight.bold)),
              Text("See All >", style: TextStyle(color: Colors.red)),
            ],
          ),

          SizedBox(height: 10),
          SingleChildScrollView(
            scrollDirection: Axis.horizontal,
            padding: EdgeInsets.symmetric(horizontal: 10),
            child: Row(
              children: [
                _movieCard('assets/movie1.jpg', 'PROMOTED', context),
                _movieCard('assets/movie2.jpg', "", context),
                _movieCard('assets/movie3.jpg', "", context),
              ],
            ),
          ),

        ],
      ),
    ),
    bottomNavigationBar: BottomNavigationBar(
      selectedItemColor: Colors.red,
      unselectedItemColor: Colors.black54,

```

```

    items: [
      BottomNavigationBarItem(icon: Icon(Icons.home), label: "Home"),
      BottomNavigationBarItem(icon: Icon(Icons.movie), label: "Movies"),
      BottomNavigationBarItem(icon: Icon(Icons.event), label: "Live Events"),
      BottomNavigationBarItem(icon: Icon(Icons.person), label: "Profile"),
    ],
  ),
);
}

```

```

Widget _categoryIcon(IconData icon, String label) {
  return Column(
    children: [
      Icon(icon, size: 40),
      SizedBox(height: 5),
      Text(label, style: TextStyle(fontSize: 14)),
    ],
  );
}

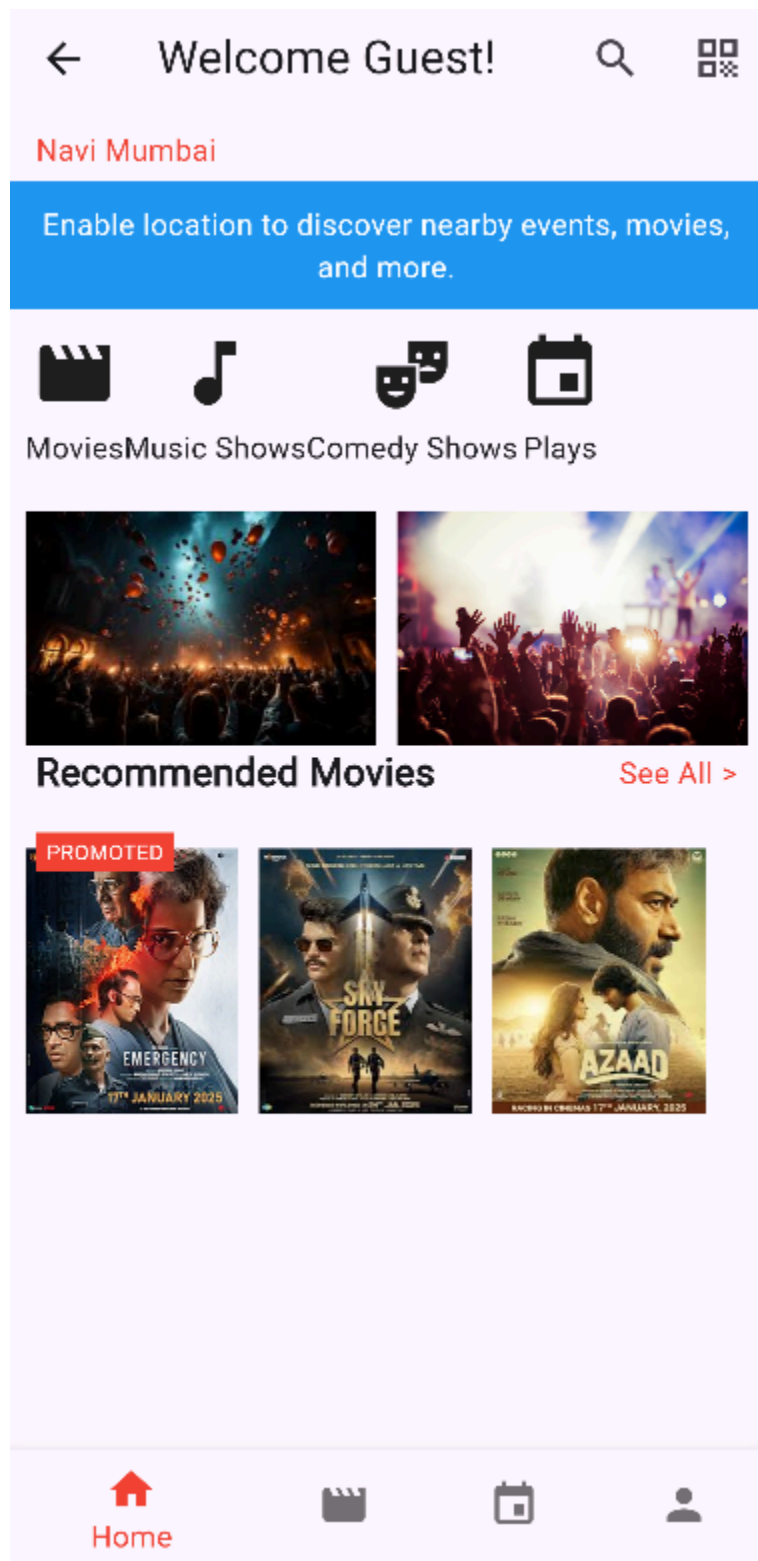
```

```

Widget _movieCard(String imagePath, String tag, BuildContext context) {
  return GestureDetector(
    onTap: () {
      Navigator.push(
        context,
        MaterialPageRoute(builder: (context) => DetailsPage()),
      );
    },
    child: Padding(
      padding: const EdgeInsets.only(right: 10),
      child: Column(
        children: [
          Stack(
            children: [
              Image.asset(imagePath, width: 100, height: 150),
              if (tag.isNotEmpty)
                Positioned(
                  top: 5,
                  left: 5,
                  child: Container(
                    color: Colors.red,
                    padding: EdgeInsets.symmetric(horizontal: 5, vertical: 2),
                    child: Text(tag, style: TextStyle(color: Colors.white, fontSize: 10)),
                  ),
                ),
            ],
          ),
        ],
      ),
    ),
  );
}

```

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



details.dart

```
import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';
import 'booking_page.dart'; // Import the BookingPage
```

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

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Movie Details',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: DetailsPage(),
    );
  }
}
```

```
class DetailsPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      appBar: AppBar(
        title: Text("Emergency"),
        leading: IconButton(
          icon: Icon(Icons.arrow_back),
          onPressed: () => Navigator.pop(context),
        ),
        actions: [
          Icon(Icons.share),
          SizedBox(width: 10),
          Icon(Icons.more_vert),
          SizedBox(width: 10),
        ],
        elevation: 0,
      ),
      body: SingleChildScrollView(
        child: Padding(
          padding: EdgeInsets.all(12.0),
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              // Movie Banner
              Stack(
                children: [
```

```

ClipRRect(
  borderRadius: BorderRadius.circular(10),
  child: Image.asset(
    "assets/banner1.jpg",
    height: 180,
    width: double.infinity,
    fit: BoxFit.cover,
  ),
),
Positioned(
  top: 70,
  left: 140,
  child: Column(
    children: [
      Icon(Icons.play_circle_fill, color: Colors.white, size: 60),
      SizedBox(height: 5),
      Text(
        "Trailers (4)",
        style: GoogleFonts.roboto(color: Colors.white, fontSize: 14),
      ),
    ],
  ),
),
],
),
SizedBox(height: 10),

// Rating Section
Row(
  children: [
    Icon(Icons.star, color: Colors.redAccent, size: 24),
    SizedBox(width: 5),
    Text(
      "8.2/10 ",
      style: GoogleFonts.roboto(fontSize: 18, fontWeight: FontWeight.bold),
    ),
    Text("(7.8K Votes)", style: GoogleFonts.roboto(fontSize: 14, color: Colors.grey)),
    Spacer(),
    ElevatedButton(
      onPressed: () {},
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.pink.shade100,
        shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
      ),
      child: Text("Rate now", style: TextStyle(color: Colors.redAccent)),
    ),
  ],
),
SizedBox(height: 10),

// Movie Info
Row(

```



```

children: [
  Container(
    padding: EdgeInsets.symmetric(horizontal: 8, vertical: 4),
    decoration: BoxDecoration(
      color: Colors.grey.shade300,
      borderRadius: BorderRadius.circular(5),
    ),
    child: Text("2D", style: GoogleFonts.roboto(fontWeight: FontWeight.bold)),
  ),
  SizedBox(width: 8),
  Text("HINDI", style: GoogleFonts.roboto(fontSize: 16, fontWeight: FontWeight.bold)),
],
),
SizedBox(height: 5),
Text(
  "2h 27m • Drama, Historical • UA • 17 Jan, 2025",
  style: GoogleFonts.roboto(fontSize: 14, color: Colors.grey.shade600),
),
SizedBox(height: 8),
Text(
  "Emergency is based on true events that unfolded in 1975. The film chronicles incidents that
took pla...",
  style: GoogleFonts.roboto(fontSize: 14, color: Colors.black),
),
SizedBox(height: 8),

// Trending Section
Container(
  padding: EdgeInsets.all(10),
  decoration: BoxDecoration(
    color: Colors.blue.shade50,
    borderRadius: BorderRadius.circular(8),
  ),
  child: Row(
    children: [
      Icon(Icons.trending_up, color: Colors.blue),
      SizedBox(width: 8),
      Text("Trending", style: GoogleFonts.roboto(fontSize: 14, fontWeight: FontWeight.bold,
color: Colors.blue)),
      Spacer(),
      Text("18.28K tickets booked in last 24 hours", style: GoogleFonts.roboto(fontSize: 14)),
    ],
  ),
),
SizedBox(height: 15),

// Ads Banner
ClipRRect(
  borderRadius: BorderRadius.circular(8),
  child: Image.asset(
    "assets/prime.jpg",
    height: 100,

```

```

        width: double.infinity,
        fit: BoxFit.cover,
      ),
    ),
    SizedBox(height: 15),

    // Book Tickets Button
    Center(
      child: ElevatedButton(
        onPressed: () {
          Navigator.push(
            context,
            MaterialPageRoute(builder: (context) => BookingPage()),
          );
        },
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.pinkAccent,
          shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8)),
          padding: EdgeInsets.symmetric(vertical: 12, horizontal: 100),
        ),
        child: Text("Book tickets", style: TextStyle(fontSize: 16, color: Colors.white)),
      ),
    ),
  ],
),
),
);
}
}

```



Emergency



8.2/10 (7.8K Votes)

Rate now

2D **HINDI**

2h 27m • Drama, Historical • UA • 17 Jan, 2025

Emergency is based on true events that unfolded in 1975. The film chronicles incidents that took place...



Trending 18.28K tickets booked in last 2 hours



Book tickets