

EXPERIMENT 3

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

THEORY:

Flutter allows developers to create rich and visually engaging user interfaces by easily incorporating **icons, images, and custom fonts** into their applications. These elements help in enhancing the look and feel of an app, improving user experience and branding consistency.

1. Icons in Flutter

Icons are graphical representations used to indicate actions, features, or status. Flutter provides multiple ways to use icons:

- **Built-in Material Icons**

Flutter includes a large collection of Material Design icons via the `Icons` class.
Example: `Icons.home`, `Icons.search`

- **Custom Icons**

Developers can also include custom icons using `.ttf` files or icon packs like **Font Awesome** via packages (e.g., `flutter_vector_icons`, `font_awesome_flutter`).

Usage Example:

```
Icon(Icons.favorite, color: Colors.red)
```

2. Images in Flutter

Images are a key visual component in any app, used for branding, illustrations, or visual communication. Flutter supports:

- **Asset Images**
Stored locally in the project under the assets directory.
 - **Network Images**
Loaded from a web URL.
 - **Memory or File Images**
Loaded from the device's memory or file system.
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Benefits of Including Icons, Images, and Fonts

- **Improved UI/UX:** Enhances app design and user interaction.
- **Brand Identity:** Helps create a consistent brand look and feel.
- **Engagement:** Visually appealing content keeps users interested.

CODE:

```
login_screen.dart:
import
'package:flutter/material.dart';
import
'package:firebase_auth/firebase_auth
.dart';
import
'package:cloud_firestore/cloud_firestore.dart';
import
'../features/home/home_page.dart';

class RedditLoginPage extends
StatefulWidget {
  const
RedditLoginPage({super.key});

  @override
  _RedditLoginPageState
createState() =>
_RdditLoginPageState();
}

class _RedditLoginPageState extends
State<RedditLoginPage> {
  final TextEditingController
_usernameController =
TextEditingController();
  final TextEditingController
_passwordController =
TextEditingController();
}
```

```

Future<void> _signIn() async {
  final username =
_usernameController.text.trim();
  final password =
_passwordController.text.trim();

  if (username.isNotEmpty &&
password.isNotEmpty) {
Image.asset('assets/reddit_logo.png'
, height: 40),
    ],
    ),
    const SizedBox(height:
50),
    Image.asset(
'assets/reddit_mascot.png',
    height: 200,
    ),
    onPressed:
_signUp,
    style:
ElevatedButton.styleFrom(
backgroundColor: Colors.blueAccent,
padding:
const EdgeInsets.symmetric(vertical:
12, horizontal: 100),
    shape:
RoundedRectangleBorder(borderRadius:
BorderRadius.circular(8)),
    ),
    child: const
Text("Sign Up", style:
TextStyle(fontSize: 18, color:
Colors.white)),
    ),
    const
SizedBox(height: 10),

```

```

ElevatedButton(
    onPressed:
_signIn,
    style:
ElevatedButton.styleFrom(
backgroundColor: Colors.green,
padding:
const EdgeInsets.symmetric(vertical:
12, horizontal: 108),
    shape:
RoundedRectangleBorder(borderRadius:
BorderRadius.circular(8)),
    ),
    child: const
Text("Sign In", style:
TextStyle(fontSize: 18, color:
Colors.white)),
    ),
    ],
    ),
    ],
    ),
    ),
    );
}
}

```

```

search_page.dart:
import
'package:flutter/material.dar
t';
import
'subreddit_screen.dart';

class SearchPage extends
StatelessWidget {

```

```

const
SearchPage({super.key});

@override
Widget build(BuildContext
context) {
    final List<Map<String,
dynamic>> communities = [
        {"rank": 415, "name":
"r/patientgamers", "members":
"512"},
        {"rank": 416, "name":
"r/spikes", "members":
"904"},
        {"rank": 417, "name":
"r/Costco", "members":
"28.4k"},
        {"rank": 418, "name":
"r/Cartalk", "members":
"28.1k"},
        {"rank": 419, "name":
"r/3amjokes", "members":
"28.7k"},

```

```

        {"rank": 421, "name":
"r/oculus", "members":
"27.7k"},
        h(
            context,
MaterialPageRoute(
            builder:
(context) => SubredditScreen(
subredditName:
community['name'],
            ),
            ),
            );
        },
    );
    },
    );
    }
}

```

OUTPUT:



Dive into anything

Sign Up

Sign In