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Experiment 03: Including Icons, Images, and Fonts in a Flutter App

Introduction

Flutter allows seamless integration of icons, images, and custom fonts to enhance the visual appeal of mobile applications. In this document, we will explore how to include and use these assets effectively.

1. Including Icons in Flutter

Flutter provides built-in icons via the Icons class and allows the use of custom icons through the pubspec.yaml file.

1.1 Using Built-in Icons

Flutter provides an extensive set of material icons that can be used as follows:

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
return MaterialApp(       home:
Scaffold(
        appBar: AppBar(title: Text("Flutter Icons")),
body: Center(          child: Icon(
Icons.favorite,
            color: Colors.red,
size: 50.0,
          ),
        ),
      ),
    );
  } }
```

1.2 Using Custom Icons

To use custom icons, first, download or generate an icon font using FlutterIcon and add it to the pubspec.yaml file:

```
flutter:
fonts:
- family: CustomIcons       fonts:
- asset: assets/fonts/custom_icons.ttf
```

Use it in your app:

```
Icon(IconData(0xe900, fontFamily: 'CustomIcons'))
```

2. Including Images in Flutter

Flutter supports various ways to include images, such as from the assets folder, network URLs, and memory.

2.1 Adding Image Assets

1. Place images inside the assets/images/ directory.
2. Declare them in pubspec.yaml:

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

3. Use them in your app:

```
Image.asset('assets/images/sample.png', width: 200, height: 200)
```

2.2 Using Network Images

Load images directly from the internet:

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

3. Including Custom Fonts in Flutter

Custom fonts can enhance the UI by providing unique typography.

3.1 Adding Custom Fonts

1. Place font files in assets/fonts/.
2. Declare them in pubspec.yaml:

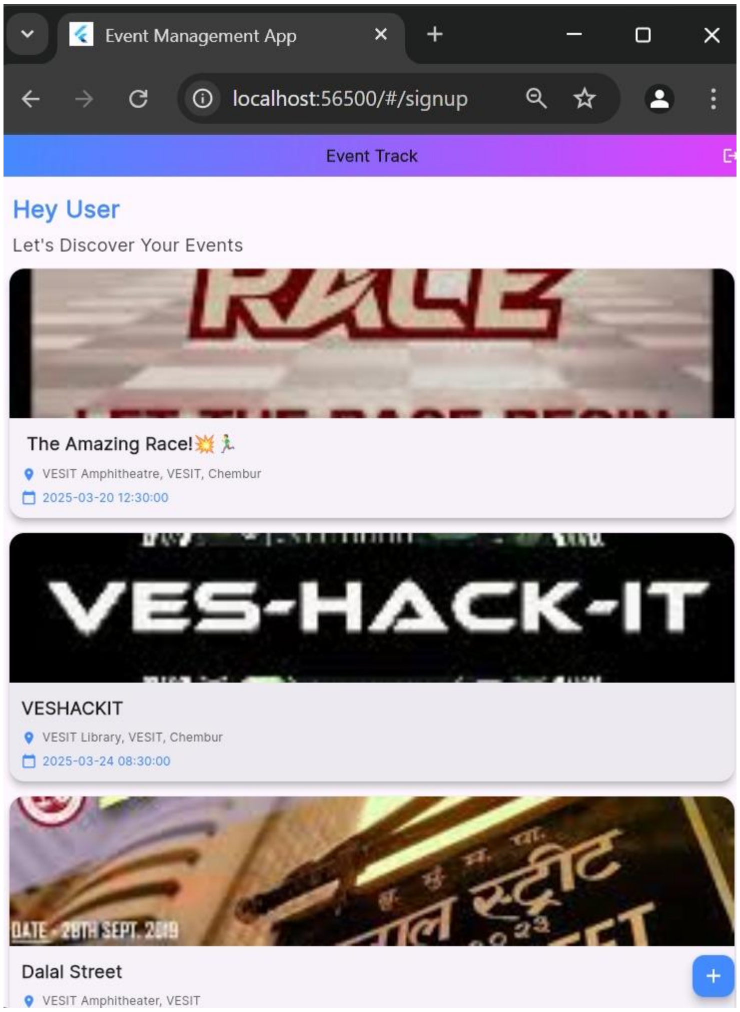
```
flutter:
fonts:
- family: CustomFont       fonts:
- asset: assets/fonts/CustomFont-Regular.ttf
```

3.2 Using Custom Fonts in the App

Apply the font to text widgets:

```
Text(
  'Hello, Flutter!',
  style: TextStyle(fontFamily: 'CustomFont', fontSize: 24),
)
```

Output –



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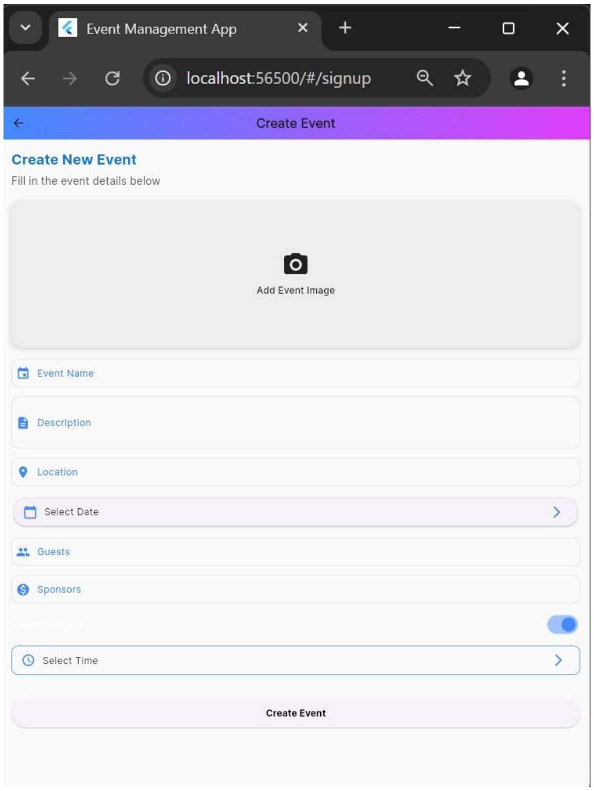
VESIT Library, VESIT, Chembur

2025-03-24 08:30:00

Dalal Street

VESIT Amphitheater, VESIT



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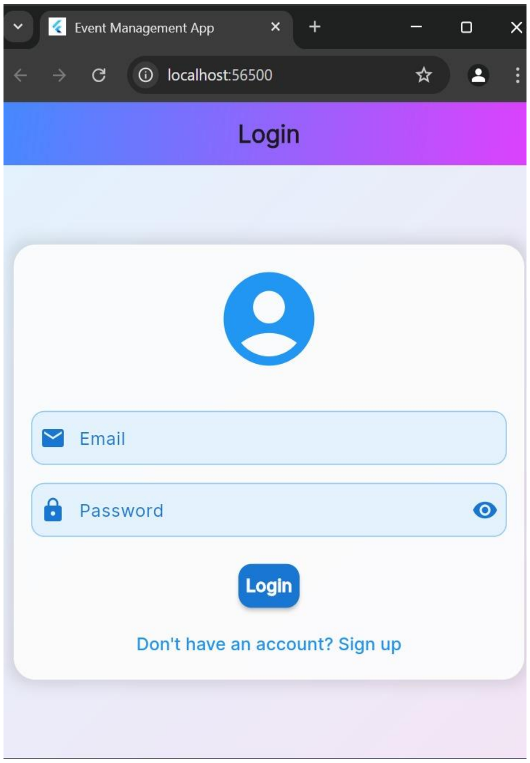

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Conclusion

This document covered the integration of icons, images, and fonts in a Flutter app. These elements significantly enhance UI design, making the app more engaging and visually appealing.