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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](https://www.fluttericon.com/) 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

1. 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**

## 

## **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.