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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`:

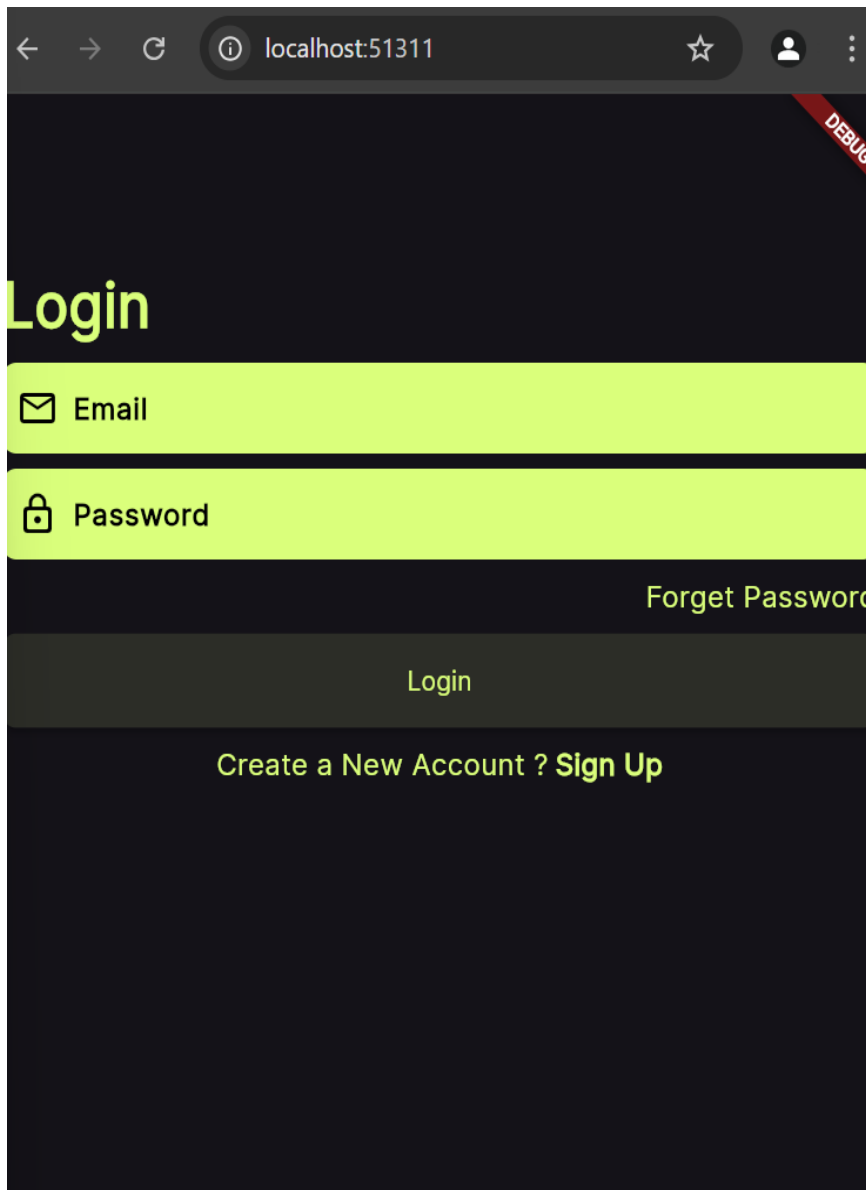
```
flutter:  
  fonts:  
    - family: CustomFont  
      fonts:  
        - asset: assets/fonts/CustomFont-Regular.ttf
```

### 3.2 Using Custom Fonts in the App

Apply the font to text widgets:

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

## Output



## 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.