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Experiment No. 3

<u>AIM</u>: To include icons, images, fonts in Flutter app

THEORY:

Including icons, images, and custom fonts in a Flutter app is a common requirement to enhance the visual appeal and functionality of the application. Let's discuss each of these elements:

1. Icons:

Icons in Flutter are typically represented by the Icon widget. Flutter provides a set of built-in icons through the Icons class, but you can also use custom icons or those from external icon packs.

How to Include Icons:

Built-in Icons:

Icon(Icons.star);

Custom Icons:

Flutter allows you to use custom icons in various formats, such as SVG or PNG. You can use the Image.asset or Image.network widget to display custom icons.

2. Images:

Displaying images is a crucial part of app development. Flutter supports various image formats, including PNG, JPEG, GIF, and WebP.

How to Include Images:

Asset Images:

• Place your images in the assets folder of your project, and then use the Image.asset widget to display them.

Image.asset('assets/images/my image.png');

3. Fonts:

Custom fonts allow you to create a unique typographic style for your app. Flutter supports TrueType (TTF) and OpenType (OTF) fonts.

How to Include Fonts:

Adding Fonts to pubspec.yaml:

Add your font files to the fonts section of the pubspec.yaml file.

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```
flutter:
 fonts:
  - family: MyCustomFont
   fonts:
    - asset: assets/fonts/my custom font.tt
Using Custom Fonts:
Apply custom fonts using the Text widget.
Text(
 'Hello, World!',
 style: TextStyle(
  fontFamily: 'MyCustomFont',
  fontSize: 20,
 ),
);
CODE:
// pages/cleaning.dart
import 'package:animate do/animate do.dart';
import 'package:day35/pages/date time.dart';
import 'package:flutter/material.dart';
class CleaningPage extends StatefulWidget {
 const CleaningPage({ Key? key }) : super(key: key);
 @override
 _CleaningPageState createState() => _CleaningPageState();
class CleaningPageState extends State<CleaningPage> {
 // Rooms to clean
 List<dynamic> rooms =[
  ['Living Room', 'https://img.icons8.com/officel/2x/living-room.png', Colors.red, 0],
  ['Bedroom', 'https://img.icons8.com/fluency/2x/bedroom.png', Colors.orange, 1],
  ['Bathroom', 'https://img.icons8.com/color/2x/bath.png', Colors.blue, 1],
  ['Kitchen', 'https://img.icons8.com/dusk/2x/kitchen.png', Colors.purple, 0],
  ['Office', 'https://img.icons8.com/color/2x/office.png', Colors.green, 0]
 ];
 List<int> selectedRooms = [];
```

```
@override
 Widget build(BuildContext context) {
  return Scaffold(
   backgroundColor: Colors.white,
   floatingActionButton: selectedRooms.length > 0 ? FloatingActionButton(
    onPressed: () {
     Navigator.push(
       context,
       MaterialPageRoute(
        builder: (context) => DateAndTime()
       ),
     );
     child: Row(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
       Text('${ selectedRooms.length}', style: TextStyle(fontSize: 16, fontWeight:
FontWeight.bold)),
       SizedBox(width: 2),
       Icon(Icons.arrow forward ios, size: 18,),
     ],
    backgroundColor: Colors.blue,
   ): null,
   body: NestedScrollView(
    headerSliverBuilder: (BuildContext context, bool innerBoxIsScrolled) {
      return < Widget>[
       SliverToBoxAdapter(
        child: FadeInUp(child: Padding(
         padding: EdgeInsets.only(top: 120.0, right: 20.0, left: 20.0),
         child: Text(
           'Where do you want \ncleaned?',
          style: TextStyle(
            fontSize: 35,
            color: Colors.grey.shade900,
            fontWeight: FontWeight.bold,
     body: Padding(
      padding: EdgeInsets.all(20.0),
     child: ListView.builder(
       physics: NeverScrollableScrollPhysics(),
```

```
itemCount: rooms.length,
       itemBuilder: (BuildContext context, int index) {
        return FadeInUp(
         delay: Duration(milliseconds: 500 * index),
         duration: Duration(milliseconds: 500),
         child: room( rooms[index], index));
 room(List room, int index) {
  return GestureDetector(
   onTap: () {
    setState(() {
     if ( selectedRooms.contains(index))
        selectedRooms.remove(index);
     else
       selectedRooms.add(index);
    });
   child: Container(
    padding: EdgeInsets.symmetric(horizontal: 20.0, vertical: 10),
    margin: EdgeInsets.only(bottom: 20.0),
     decoration: BoxDecoration(
     borderRadius: BorderRadius.circular(10.0),
     color: selectedRooms.contains(index)?room[2].shade50.withOpacity(0.5):
Colors.grey.shade100,
    ),
     child: Column(
      mainAxisAlignment: MainAxisAlignment.start,
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
       Row(
        children: [
         Row(
          children: [
            Image.network(room[1], width: 35, height: 35,),
            SizedBox(width: 10.0,),
            Text(room[0], style: TextStyle(fontSize: 18, fontWeight: FontWeight.w600),),
          ],
         Spacer(),
          selectedRooms.contains(index)?
```

```
Container(
            padding: EdgeInsets.all(5.0),
            decoration: BoxDecoration(
             color: Colors.greenAccent.shade100.withOpacity(0.3),
             borderRadius: BorderRadius.circular(10.0),
            child: Icon(Icons.check, color: Colors.green, size: 20,)
           SizedBox()
       ( selectedRooms.contains(index) && room[3] \geq= 1)?
       Container(
        child: Column(
         crossAxisAlignment: CrossAxisAlignment.start,
         children: [
           SizedBox(height: 20.0,),
           Text("How many ${room[0]}s?", style: TextStyle(fontSize: 15),),
           SizedBox(height: 10.0,),
           Container(
            height: 45,
            child: ListView.builder(
             scrollDirection: Axis.horizontal,
             itemCount: 4,
             itemBuilder: (BuildContext context, int index) {
              return GestureDetector(
                onTap: () {
                 setState(() {
                  room[3] = index + 1;
                 });
                child: Container(
                 margin: EdgeInsets.only(right: 10.0),
                 padding: EdgeInsets.all(10.0),
                 width: 50,
                 decoration: BoxDecoration(
                  borderRadius: BorderRadius.circular(10.0),
                  color: room[3] == index + 1 ? room[2].withOpacity(0.5) :
room[2].shade200.withOpacity(0.5),
                 child: Center(child: Text((index + 1).toString(), style: TextStyle(fontSize: 22,
color: Colors.white),)),
```

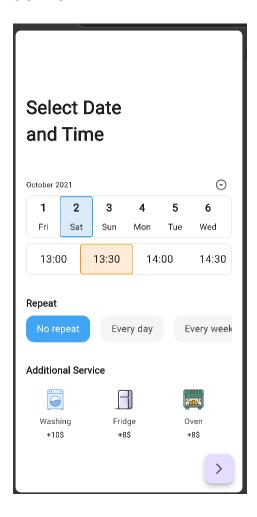
```
)
],
),
): SizedBox()
)
), );
}
```

//pubspec.yaml

```
name: day35
description: A new Flutter project.
publish to: 'none'
version: 1.0.0+1
environment:
 sdk: ">=3.5.1"
dependencies:
 flutter:
  sdk: flutter
 cupertino icons: ^1.0.8
 animate \overline{do}: ^3.3.4
 scrollable_positioned_list: ^0.3.8
dev dependencies:
 flutter_test:
  sdk: flutter
flutter:
 uses-material-design: true
```

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OUTPUT



CONCLUSION:

In conclusion, enhancing the visual appeal and functionality of a Flutter app involves incorporating icons, images, and custom fonts.

Icons: Utilize the Icon widget for built-in icons and explore custom icons using various formats. Images: Display images with the Image.asset widget for local assets or Image.network for network images.

Fonts: Include custom fonts in the pubspec.yaml file and apply them using the TextStyle property in the Text widget.