Experiment 03 : To include icons, images and fonts in flutter app.

Experiment No 3 **1:Including icons, images and fonts in flutter app**	
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CLASS	**D15-B**
SUBJECT	**MAD & PWA Lab**
LO-MAPPED	

Aim: To include icons, images and fonts in flutter app.

Theory:

1. Icons:

Flutter Icons:

Flutter comes with its set of built-in icons, and you can easily use them in your app. These icons are part of the Icons class, and you can directly reference them in your code.

Custom Icons:

For custom icons, you can use Flutter's flutter_launcher_icons package or create your custom icons using tools like FlutterIcon.

To use custom icons, add the image to your project and reference it in your code:

2. Images:

Asset Images:

Include images in your Flutter app by placing them in the assets directory. To use these images, add them to the pubspec.yaml file:

Copy code

```
flutter:
assets:
- assets/images/image1.png
- assets/images/image2.jpg
```

Then, use Image.asset to display them:

Image.asset('assets/images/image1.png');Network Images:

Load images from the network using the Image.network widget:

dart

3. Fonts:

Custom Fonts:

To include custom fonts, place the font files (e.g., .ttf or .otf) in a fonts directory. Update the pubspec.yaml file:

Then, use the TextStyle with your custom font:

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```
Text(
'Custom Font Text',
style: TextStyle(
fontFamily: 'CustomFont',
),
);
```

4. Using Packages:

Icon Packages:

Consider using icon packages like flutter_icons or font_awesome_flutter for a wide range of icons.

Image Packages:

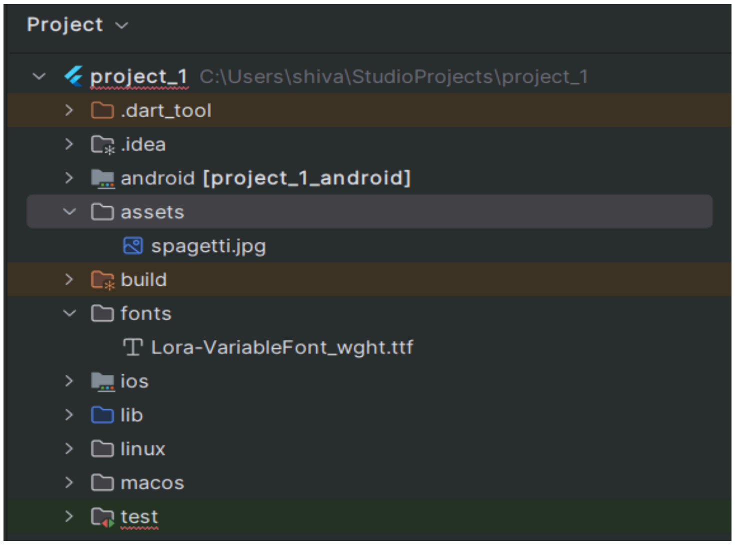
For managing and loading images efficiently, you can use packages like cached_network_image for network images or image_picker for accessing device images.

Font Packages:

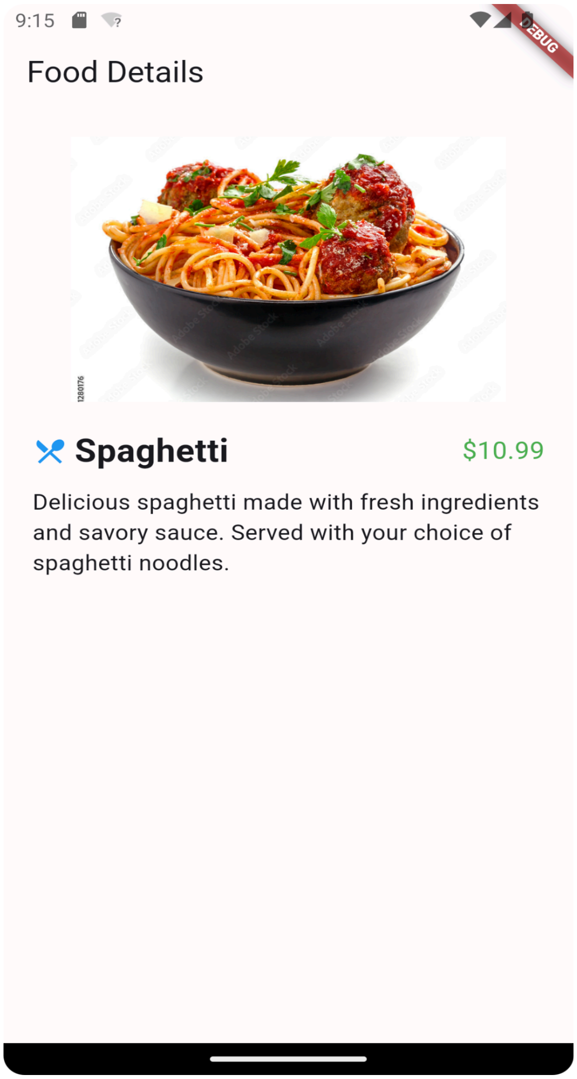
Explore font packages like google_fonts to easily use Google Fonts in your app.

Code:

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Food Details',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: FoodDetailsPage(),
    );
  }
}

class FoodDetailsPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Food Details'),
      ),
      body: Center(
        child: Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
  SizedBox(height: 20), // Adding margin from the top
  Center(
    child: Image.asset(
      'assets/spagetti.jpg',
      width: 300,
      height: 200,
      fit: BoxFit.cover,
    ),
  ),
  SizedBox(height: 20), // Adding margin between the image and title
  // Title, Icon, and Price row
  Padding(
    padding: EdgeInsets.symmetric(horizontal: 20),
    child: Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        // Title and Icon
        Row(
          children: [
            Icon(
              Icons.restaurant_menu, // Restaurant icon
              size: 24,
              color: Colors.blue,
            ),
            SizedBox(width: 5),
            Text(
              'Spaghetti',
              style: TextStyle(
                fontSize: 24,
                fontWeight: FontWeight.bold,
              ),
            ),
          ],
        ),
        // Price
        Text(
          '\$10.99',
          style: TextStyle(
                      fontSize: 18,
                      color: Colors.green,
                    ),
                  ),
                ],
              ),
            ),
            SizedBox(height: 10),
            // Description
            Padding(
              padding: EdgeInsets.symmetric(horizontal: 20),
              child: Text(
                    'Delicious spaghetti made with fresh ingredients and savory sauce. Served with your
choice of spaghetti noodles.',
                style: TextStyle(
                  fontSize: 16,
                ),
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```



```
Project ⌄
⌄ project_1  C:\Users\shiva\StudioProjects\project_1
  > .dart_tool
  > .idea
  > android [project_1_android]
  ⌄ assets
      spagetti.jpg
  > build
  ⌄ fonts
      Lora-VariableFont_wght.ttf
  > ios
  > lib
  > linux
  > macos
  > test
```



Food Details

Spaghetti $10.99

Delicious spaghetti made with fresh ingredients and savory sauce. Served with your choice of spaghetti noodles.

Conclusion:

Integrating icons, images, and fonts in Flutter enriches the app's visual experience, fostering design flexibility and user engagement. Thus, here we have successfully integrated icons, images and text in our food app.