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CLASS :- D15B ROLL NO :- 41

EXPERIMENT NO :- 3

AIM :- To include icons , image & fonts in Flutter app.

THEORY :-In Flutter, images, icons, and fonts play crucial roles in creating visually appealing and interactive user interfaces. A brief overview of how these elements are utilized and implemented in Flutter:

1.Images:

- Images in Flutter can be used to display static or dynamic content, such as user profile pictures, background images, or product thumbnails.
- Flutter supports various image formats like JPEG, PNG, GIF, WebP, and animated WebP.
- Images can be loaded from various sources, including local assets, network URLs, or memory.
- To display an image in Flutter, you can use the Image widget or its specialized variants like AssetImage, NetworkImage, or MemoryImage.

2.Icons:

- Icons in Flutter represent graphical symbols that convey meaning or perform actions within the user interface.
- Flutter provides a rich set of built-in icons from the Material Design and Cupertino (iOS) icon libraries.
- Icons can be customized in terms of size, color, and opacity to fit the design requirements.
- You can use the Icon widget to display built-in icons or even create custom icons using CustomPainter or SVG paths.

3.Fonts:

- Fonts in Flutter are used to style and format text within the user interface.
- Flutter supports various font formats such as TrueType (TTF), OpenType (OTF), and Web fonts (WOFF, WOFF2).
- Fonts can be applied globally to the entire application or selectively to specific text widgets.
- To use custom fonts in Flutter, you need to include the font files in your project and define them in the pubspec.yaml file. Then, you can reference these fonts using the fontFamily property in text widgets.
- In summary, images, icons, and fonts are essential building blocks for designing engaging and visually appealing Flutter applications. By leveraging the capabilities provided by Flutter's image, icon, and text rendering APIs, developers can create rich and immersive user experiences across different platforms.

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CODE & OUTPUT :-

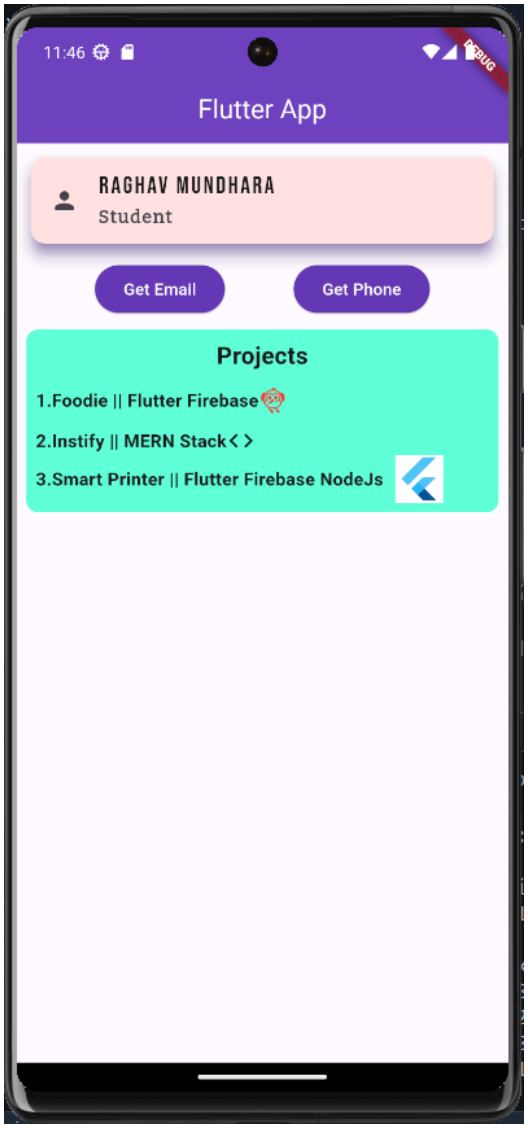
```
import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
        useMaterial3: true,
      ),
      home: const MyHomePage(),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key});

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Flutter App',
          style: TextStyle(
            color: Colors.white,
```

```
    ),
  ),
  backgroundColor: Theme.of(context).colorScheme.primary,
  centerTitle: true,
),
body:  Padding(
  padding: const EdgeInsets.all(8.0),
  child: Center(
    child: Column(
      children: [
        Card(
          shadowColor: Colors.deepPurple,
          elevation: 10,
          surfaceTintColor: Colors.deepOrange,
          child: Column(
            children: [
              ListTile(
                leading: const Icon(Icons.person),
                title: Text('Raghav Mundhara',
                  style: TextStyle(
                    fontFamily: GoogleFonts.bebasNeue().fontFamily,
                    fontSize: 20,
                    letterSpacing: 2,
                  ),
                ),
                subtitle:  Text('Student',
                  style: TextStyle(
                    fontFamily: GoogleFonts.bitter().fontFamily,
                    fontSize: 15,
                    letterSpacing: 1,
                    fontWeight: FontWeight.w700,
                  ),
                ),
              ),
            ],
          )
        ),
        const SizedBox(
          height: 10,
        ),
        Row(
          mainAxisAlignment: MainAxisAlignment.spaceEvenly,
          children: [
            ElevatedButton(
```

```
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.deepPurple,
        foregroundColor: Colors.white,
      ),
      onPressed: () {
        ScaffoldMessenger.of(context).showSnackBar(
          const SnackBar(
            shape: StadiumBorder(),
            padding: EdgeInsets.all(16),
            content: Text('Email: 2021.raghav.mundhara@ves.ac.in')
          ),
        );
      },
      child: const Text('Get Email'),
    ),
    ElevatedButton(
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.deepPurple,
        foregroundColor: Colors.white,
      ),
      onPressed: () {
        ScaffoldMessenger.of(context).showSnackBar(
          const SnackBar(
            shape: StadiumBorder(),
            padding: EdgeInsets.all(16),
            content: Text('Phone Number: 1234567890')
          ),
        );
      },
      child: const Text('Get Phone'),
    ),
  ],
),
const SizedBox(
  height: 10,
),
Container(
  decoration: BoxDecoration(
    color: Colors.tealAccent,
    borderRadius: BorderRadius.circular(10),
  ),
  child: const Padding(
    padding: EdgeInsets.all(8.0),
    child: Column(
```

```
crossAxisAlignment: CrossAxisAlignment.start,
children: [
  Align(
    alignment: Alignment.center,
    child: Text('Projects',
      style: TextStyle(
        fontSize: 20,
        fontWeight: FontWeight.bold,
      ),
    ),
  ),
  SizedBox(
    height: 10,
  ),
  Row(
    children: [
      Text('1.Foodie || Flutter Firebase',
        style: TextStyle(
          fontSize: 15,
          fontWeight: FontWeight.bold,
        ),
      ),
      Icon(Icons.flutter_dash,
        color: Colors.red,
      )
    ],
  ),
  SizedBox(height: 10,),
  Row(
    children: [
      Text('2.Instify || MERN Stack',
        style: TextStyle(
          fontSize: 15,
          fontWeight: FontWeight.bold,
        ),
      ),
      Icon(Icons.code)
    ],
  ),
  Row(
    children: [
      Text('3.Smart Printer || Flutter Firebase NodeJs',
        style: TextStyle(
          fontSize: 15,
```

```
                    fontWeight: FontWeight.bold,
                  )
                ),
                SizedBox(width: 10,),
                Image(
                  image: AssetImage('assets/images/flutter.png'),
                  height: 40,
                  width: 40,
                )
              ],
            ),
          ],
        ),
      ),
    )
  ]
 ),
),
),
);
}
}
```



CONCLUSION :- In this experiment , we learnt about various ways to implement images , icons and fonts and how to style them.