

Experiment 3

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Aim: To include icons, images, fonts in Flutter app

Theory:

1. Text Widget:

- The Text widget is used to display textual content within a Flutter application.
- It allows you to customize the appearance of text, including font family, size, weight, style, color, alignment, and more.
- Text widgets support both single-line and multi-line text.
- You can use Text widgets within various Flutter layout widgets such as Column, Row, ListView, etc., to display text in different parts of the screen.
- Text widgets can also be styled dynamically using theming or state management techniques.

2. Button Widget:

- Flutter provides several types of buttons, including ElevatedButton, TextButton, OutlinedButton, and IconButton.
- Buttons are interactive elements that users can tap or click to trigger actions or events in the application.
- Each type of button has its own style and appearance, but they all support customization of properties such as text, color, padding, shape, and onPressed callback.
- Buttons can be placed within Flutter layout widgets like Row, Column, Container, etc., to create interactive user interfaces.
- Flutter buttons can also be disabled or enabled based on certain conditions, and their appearance can be adjusted accordingly.

3. Image Widget:

- The Image widget is used to display images within a Flutter application.
- It supports various image formats such as JPEG, PNG, GIF, WebP, and SVG (using the flutter_svg package).
- Images can be loaded from different sources including local assets, network URLs, memory, and file paths.
- The Image widget provides properties to control the image's size, alignment, fit, repeat mode, color filters, and more.
- Flutter also provides advanced features for image caching, resizing, and processing to optimize performance and memory usage.
- Images are often used to enhance the visual appeal of an application and to convey information to the user through graphics and icons.

Code:

```
import
'package:cached_network_image/cached_network_image.dart';
import 'package:faker/faker.dart';
import
'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:font_awesome_flutter/font_awesome_flutter.dart';
import 'package:google_fonts/google_fonts.dart';

class DetailPage extends StatelessWidget {
  const DetailPage({super.key, required this.imageUrl});
  final String imageUrl;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Column(
        children: [
          Expanded(
            child: Container(
              decoration: BoxDecoration(
                image: DecorationImage(
                  image: CachedNetworkImageProvider(imageUrl),
                  fit: BoxFit.cover,
                ),
              ),
            ),
            child: SafeArea(
              child: Padding(
                padding: const EdgeInsets.symmetric(horizontal: 18),
                child: Column(
                  mainAxisAlignment: MainAxisAlignment.spaceBetween,
                  crossAxisAlignment: CrossAxisAlignment.end,
                  children: [
                    Row(
                      mainAxisAlignment: MainAxisAlignment.spaceBetween,
                      children: [
                        InkWell(
                          onTap: () => Navigator.pop(context),
                          child: CircleAvatar(
                            backgroundColor: Colors.black.withOpacity(0.2),
                            child: const Icon(
                              CupertinoIcons.chevron_back,
                              color: Colors.white,
```



```
Text(
  'Copy link',
  style:
    GoogleFonts.notoSans(
      fontSize: 18,
      fontWeight: FontWeight.w500,
    ),
),
const SizedBox(
  height: 15,
),
Text(
  'Download image',
  style:
    GoogleFonts.notoSans(
      fontSize: 18,
      fontWeight: FontWeight.w500,
    ),
),
const SizedBox(
  height: 15,
),
Text(
  'Hide Pin',
  style:
    GoogleFonts.notoSans(
      fontSize: 18,
      fontWeight: FontWeight.w500,
    ),
),
const SizedBox(
  height: 15,
),
Text(
  'Report Pin',
  style:
    GoogleFonts.notoSans(
      fontSize: 18,
      fontWeight: FontWeight.w500,
    ),
),
Text(
  "This goes against Dribbble's community guidelines",
  style: GoogleFonts.notoSans(
    fontSize: 14,
  ),
),
],
),
),
```

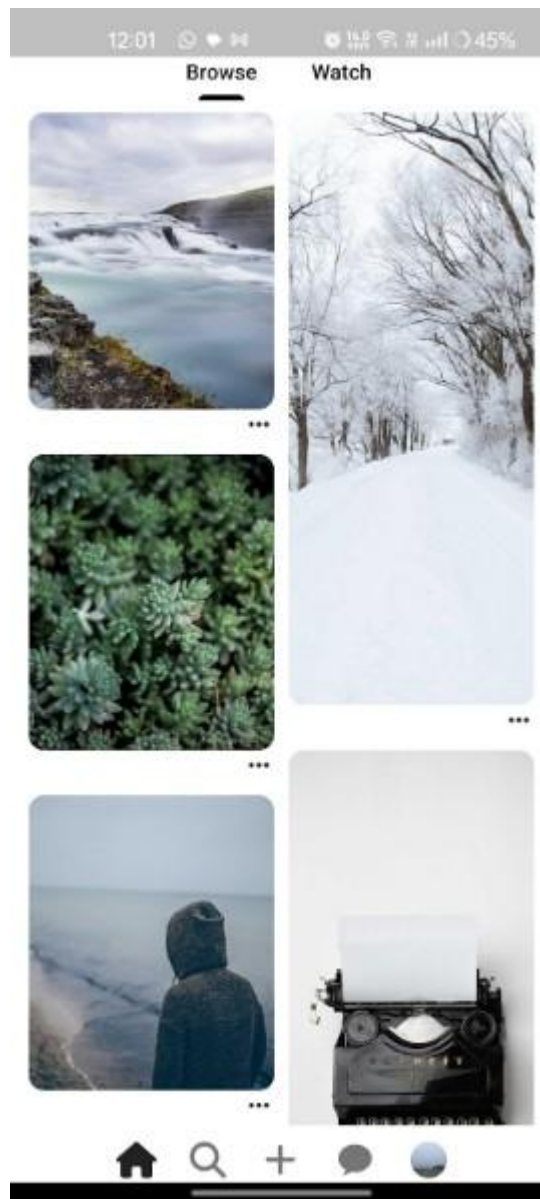
```
;
    },
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(20.0),
    ),
  );
},
child: const Icon(
  CupertinoIcons.ellipsis,
  color: Colors.white,
  size: 28,
),
),
],
),
CircleAvatar(
  backgroundColor: Colors.white.withOpacity(0.8),
  child: const Icon(
    CupertinoIcons.viewfinder,
    color: Colors.black,
  ),
)
],
),
),
),
),
),
),
),
Container(
  padding: const EdgeInsets.only(
    top: 10,
    bottom: 30,
    left: 18,
    right: 18,
  ),
  color: Colors.white,
  child: Row(
    mainAxisAlignment: MainAxisAlignment.spaceBetween,
    children: [
      const
        Icon(CupertinoIcons.heart_circle_fill), Row(
          children: [
            Container(
              padding: const EdgeInsets.symmetric(
                horizontal: 17, vertical: 15),
              decoration: BoxDecoration(
```

```

        color: const Color(0xFFFF1F1F1),
        borderRadius: BorderRadius.circular(30),
      ),
      child: Text(
        'View',
        style: GoogleFonts.notoSans(
          fontWeight: FontWeight.w500,
        ),
      ),
    ),
    const SizedBox(
      width: 6,
    ),
    Container(
      padding: const EdgeInsets.symmetric(
        horizontal: 17, vertical: 15),
      decoration: BoxDecoration(
        color: Theme.of(context).colorScheme.secondary,
        borderRadius: BorderRadius.circular(30),
      ),
      child: Text(
        'Save',
        style: GoogleFonts.notoSans(
          fontWeight: FontWeight.w500,
          color: Colors.white,
        ),
      ),
    ),
  ],
),
const Icon(Icons.share),
],
),
),
],
),
);
}
}

```

App UI:



Widgets used: Image, Text, Icons,

Conclusion: Thus, understood the use of Icons, images and font widgets in Flutter. Implemented Icons, Images and fonts in my Flutter application.