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Experiment 2

Aim: To design Flutter UI by including common widgets.

Theory:

Widgets: In Flutter, each element on a screen of the app is represented as a widget. The view of the screen is constructed by arranging these widgets in a tree-like structure.

Widgets serve as the building blocks of the app's UI, and the layout, appearance, and functionality of the app depend on the choice and arrangement of these widgets.

Flutter Container: Container is a versatile widget in Flutter that allows developers to customize its appearance using properties such as color, padding, margin, width, height, and more. It acts as a basic building block for creating layouts and can contain other widgets.

Flutter Scaffold: Scaffold is a layout structure provided by Flutter that serves as a framework for implementing the basic material design visual layout structure of the app. It provides a scaffold upon which other widgets can be built, including app bars, drawers, bottom navigation bars, and more.

Flutter Text: Text widget is used to display a string of text with a single style. It allows developers to customize the text's appearance, including its font, size, color, alignment, and more.

Flutter Row & Column: Row and Column are layout widgets used for arranging child widgets horizontally (Row) or vertically (Column). These widgets allow developers to create flexible and responsive layouts by arranging widgets in rows or columns.

Flutter Icons: Icons widget is used to display Material icons in the app. Material icons are a collection of system icons provided by Flutter that represent common actions, items, and concepts. The Icons widget allows developers to easily incorporate these icons into their app's UI by specifying the desired icon's name.

Flutter Buttons: Buttons are interactive widgets that trigger actions when tapped by the user. Flutter provides various button widgets like Raised Button, Flat Button, IconButton, FloatingActionButton, etc. These widgets can be customized with different colors, text, icons, and onPressed handlers to define their behavior.

The Code of Centres.dart:

```
import 'package:flutter/material.dart';
import 'package:unacademy_app/BookVisit.dart';
import 'BookVisit.dart'; // Importing the BookVisit.dart file
import 'DownloadBrochure.dart';
class Centres extends StatefulWidget {
  const Centres({super.key});

  @override
  _CentresState createState() => _CentresState();
}
class _CentresState extends State<Centres> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const SingleChildScrollView(
          scrollDirection: Axis.horizontal,
          child: Row(
            children: [
              Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  Row(
                    children: [
                      Icon(Icons.location_on),
                      Text(
                        'Mumbai',
                        style: TextStyle(fontWeight: FontWeight.bold, fontSize: 25),
                      ),
                    ],
                  ),
                  SizedBox(height: 0.5),
                  Text(
                    'Unacademy Mumbai Center',
                    style: TextStyle(color: Colors.blue, fontSize: 20),
                  ),
                ],
              ),
            ],
          ),
        ),
      ),
    );
  }
}
```

```

body: SingleChildScrollView(
  child: Column(
    children: [
      SizedBox(
        width: 800, // Adjust width as needed
        height: 225, // Adjust height as needed
        child: Image.asset('assets/images/building.png'),
      ),
      SizedBox(
        width: 500, // Adjust width as needed
        height: 225, // Adjust height as needed
        child: Image.asset('assets/images/Office.jpg'),
      ),
      SizedBox(
        width: 800, // Adjust width as needed
        height: 225, // Adjust height as needed
        child: Image.asset('assets/images/closer.jpeg'),
      ),
      const SizedBox(height: 15),
      const Text(
        'Why Unacademy Centre?',
        style: TextStyle(fontSize: 29, fontWeight: FontWeight.bold),
      ),
      const SizedBox(height: 2),
      const Text(
        'Get an all-encompassing learning package ',
        textAlign: TextAlign.center,
      ),
      const SizedBox(height: 2),
      const Text(
        'that includes the best study material, ',
        textAlign: TextAlign.center,
      ),
      const SizedBox(height: 2),
      const Text(
        'library resources, advanced technology,',
        textAlign: TextAlign.center,
      ),
      const SizedBox(height: 2),
      const Text(
        'double-clearing sessions,1:1 mentorship and more',
        textAlign: TextAlign.center,
      ),
      const SizedBox(height: 5),
    ],
  ),

```

```

Row(
  mainAxisAlignment: MainAxisAlignment.center,
  children: [
    ElevatedButton(
      onPressed: () {
        Navigator.push( // Navigating to BookVisit page
          context,
          MaterialPageRoute(builder: (context) => const BookVisit()),
        );
      },
      child: Text('Book a Visit'),
      style: ElevatedButton.styleFrom(
        primary: Colors.blue,
        onPressed: Colors.white,
      ),
    ),
    const SizedBox(width: 20),
    ElevatedButton(
      onPressed: () {
        Navigator.push( // Navigating to BookVisit page
          context,
          MaterialPageRoute(builder: (context) => DownloadBrochure()),
        );// Add functionality for downloading brochure
      },
      style: ElevatedButton.styleFrom(
        primary: Colors.white,
        onPressed: Colors.black,
        side: const BorderSide(color: Colors.black),
      ),
      child: const Text('See Brochure'),
    ),
  ],
),
SizedBox(
  width: 1000, // Adjust width as needed
  height: 650, // Adjust height as needed
  child: Image.asset('assets/images/service.jpeg'),
),
SizedBox(
  width: 1000, // Adjust width as needed
  height: 1330, // Adjust height as needed
  child: Image.asset('assets/images/rankers.jpeg'),
),
SizedBox(

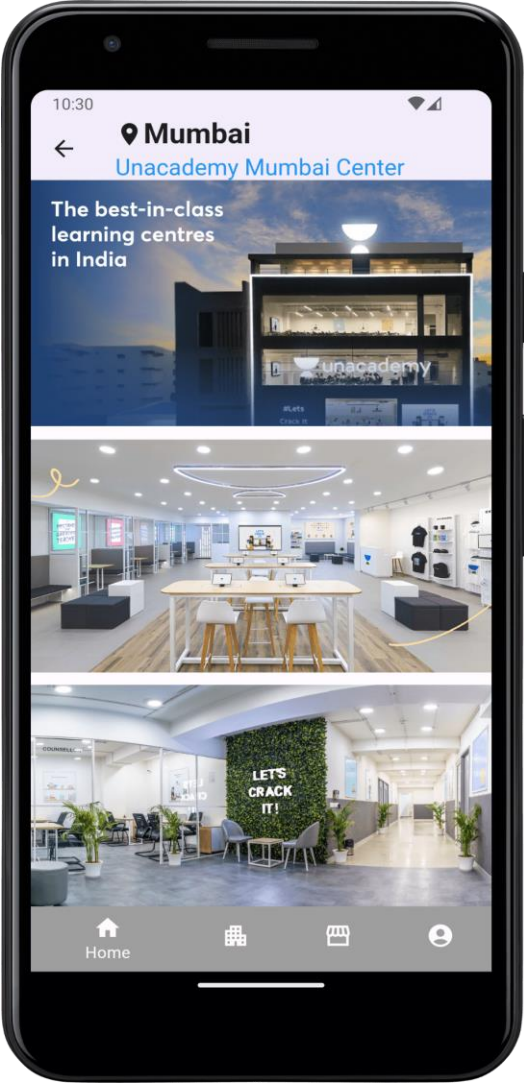
```

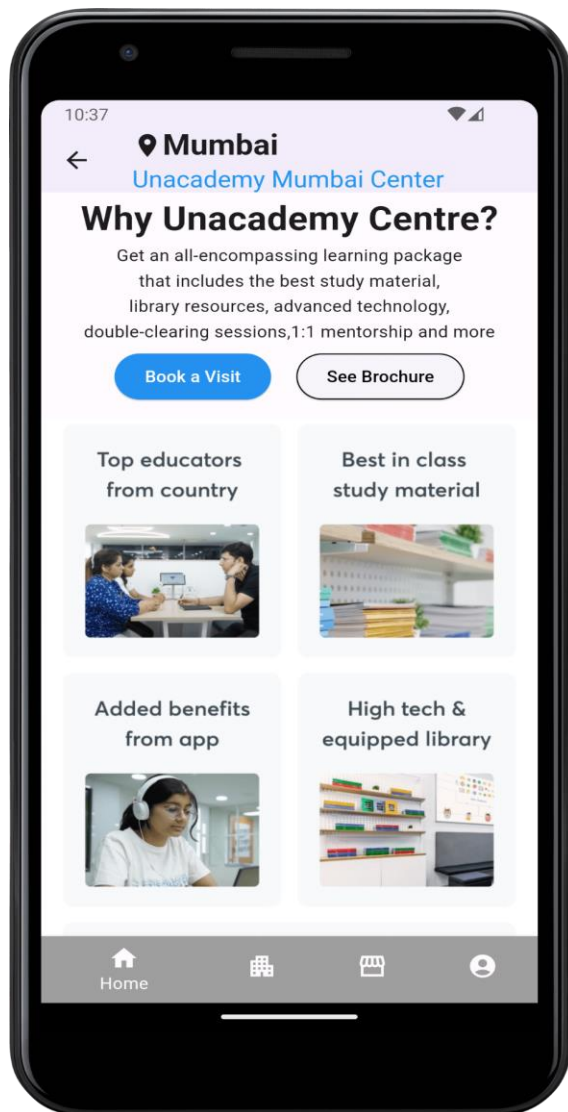
```

        width: 3000, // Adjust width as needed
        height: 350, // Adjust height as needed
        child: Image.asset('assets/images/mumbai.jpeg'),
      ),
    ],
  ),
),
bottomNavigationBar: BottomNavigationBar(
  items: const [
    BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: 'Home',
      backgroundColor: Colors.grey,
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.apartment),
      label: 'Centres',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.storefront_sharp),
      label: 'Store',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.account_circle),
      label: 'Me',
    ),
  ],
),
);
}
}

```

Output: -





10:37



📍 Mumbai

Unacademy Mumbai Center

Why Unacademy Centre?

Get an all-encompassing learning package that includes the best study material, library resources, advanced technology, double-clearing sessions, 1:1 mentorship and more

Book a Visit

See Brochure

Top educators
from country



Best in class
study material



Added benefits
from app

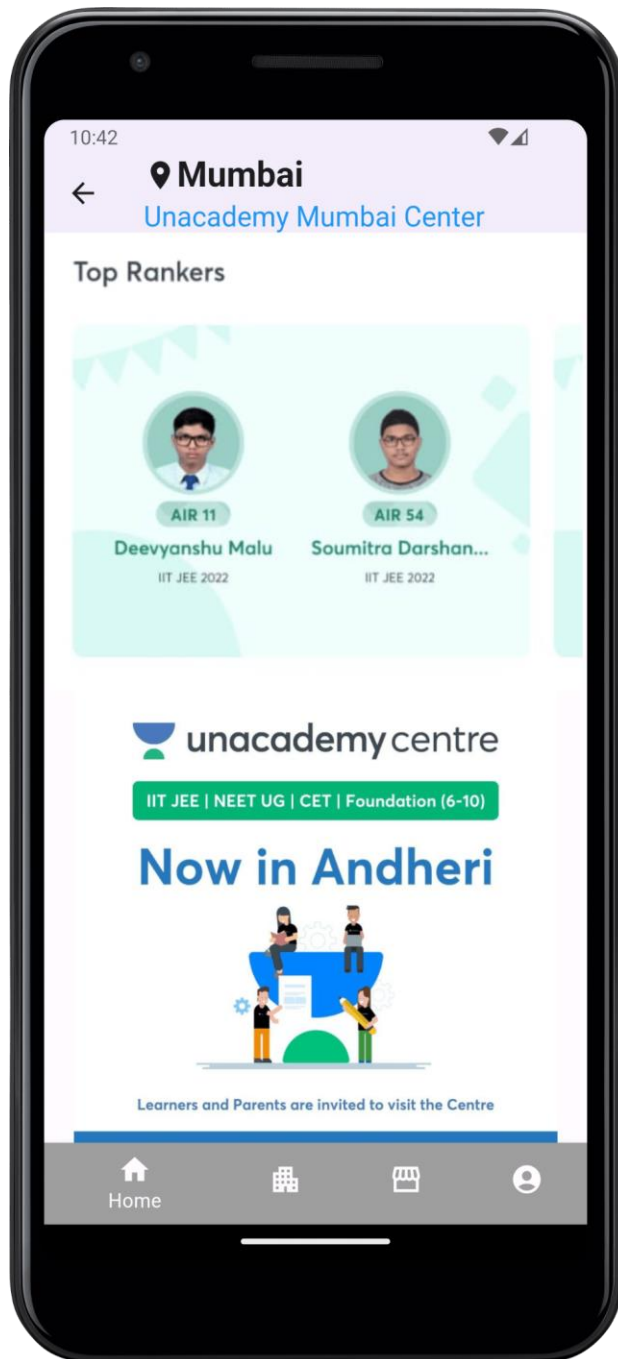


High tech &
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🏠
Home





Conclusion: - Through the implementation of various widgets such as Icons, fonts, Bottom Navigation Bar, and images in the Unacademy app project, a comprehensive understanding of fundamental components in mobile app development was achieved.