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Experiment 3

Aim: To Implement Different types of Widgets in Flutter

1. Structural Widgets

- `Scaffold`
- `SingleChildScrollView`
- `Column`
- `Padding`
- `Container`
- `SizedBox`

2. AppBar & Navigation Widgets

- `AppBar`
- `IconButton`
- `Navigator`

3. Text & Styling Widgets

- `Text`
- `TextStyle`

4. Interactive & Input Widgets

- `InkWell`
- `Card`
- `GridView.builder`
- `List<Map<String, dynamic>>` (used for dynamic data)

5. Layout & Decoration Widgets

- `BoxDecoration`
- `BorderRadius`
- `BoxShadow`

- Positioned
- Stack

6. Custom Widget Function

- `_buildApplicationStatus` (returns a `Column`)

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

class HomePage extends StatelessWidget {
  final List<Map<String, dynamic>> categories = [
    {
      'title': 'Internships',
      'subtitle': 'Explore internship opportunities',
      'icon': Icons.work_outline,
      'color': Colors.blue[600],
      'badge': '12 New',
    },

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        elevation: 0,
        title: Text('Placement Portal'),
        actions: [
          IconButton(
            icon: Icon(Icons.notifications_none),
            onPressed: () {},
          ),
          IconButton(
            icon: Icon(Icons.logout),
            onPressed: () {
              Navigator.pushNamedAndRemoveUntil(
                context,
                '/',
                    (route) => false,
              );
            },
          ),
        ],
      ),
      body: SingleChildScrollView(
```

```dart
child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: [
    Container(
      padding: EdgeInsets.all(24),
      decoration: BoxDecoration(
        color: Theme.of(context).primaryColor,
        borderRadius: BorderRadius.only(
          bottomLeft: Radius.circular(32),
          bottomRight: Radius.circular(32),
        ),
      ),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Text(
            'Hello, Student!',
            style: TextStyle(
              fontSize: 24,
              fontWeight: FontWeight.bold,
              color: Colors.white,
            ),
          ),
          SizedBox(height: 8),
          Text(
            'Find your dream opportunity today',
            style: TextStyle(
              fontSize: 16,
              color: Colors.white.withOpacity(0.9),
            ),
          ),
          SizedBox(height: 24),
          // Application Tracking Section
          Container(
            padding: EdgeInsets.all(16),
            decoration: BoxDecoration(
              color: Colors.white,
              borderRadius: BorderRadius.circular(16),
              boxShadow: [
                BoxShadow(
                  color: Colors.black.withOpacity(0.1),
                  blurRadius: 10,
                  offset: Offset(0, 5),
                ),
```

```dart
          ],
        ),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Text(
              'Your Applications',
              style: TextStyle(
                fontSize: 18,
                fontWeight: FontWeight.bold,
              ),
            ),
            SizedBox(height: 16),
            Row(
              mainAxisAlignment: MainAxisAlignment.spaceAround,
              children: [
                _buildApplicationStatus('Applied', '3', Colors.blue),
                _buildApplicationStatus('Shortlisted', '2', Colors.orange),
                _buildApplicationStatus('Interview', '1', Colors.purple),
                _buildApplicationStatus('Selected', '1', Colors.green),
              ],
            ),
          ],
        ),
      ),
    ),
  ),
),
Padding(
  padding: EdgeInsets.all(24),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      Text(
        'Quick Access',
        style: TextStyle(
          fontSize: 20,
          fontWeight: FontWeight.bold,
        ),
      ),
      SizedBox(height: 16),
      GridView.builder(
        shrinkWrap: true,
        physics: NeverScrollableScrollPhysics(),
```

```
gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
  crossAxisCount: 2,
  crossAxisSpacing: 16,
  mainAxisSpacing: 16,
  childAspectRatio: 1.1,
),
itemCount: categories,
      ),
    if (categories[index]['badge'] != null)
      Positioned(
        top: 8,
        right: 8,
        child: Container(
          padding: EdgeInsets.symmetric(
            horizontal: 8,
            vertical: 4,
          ),
          decoration: BoxDecoration(
            color: categories[index]['color'],
            borderRadius: BorderRadius.circular(12),
          ),
          child: Text(
            categories[index]['badge'],
            style: TextStyle(
              color: Colors.white,
              fontSize: 12,
              fontWeight: FontWeight.bold,
            ),
```

Placement Portal

Hello, Student!
Find your dream opportunity today

Your Applications

3	2	1	1
Applied	Shortlisted	Interview	Selected

Quick Access

12 New

Internships
Explore internship opportunities

8 New

Jobs
Browse full-time job openings

Placement Records
Company-wise placement insights

5 New

Discussion Board
Connect with peers