

MAD PWA LAB 2

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Batch : C

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Aim: To design simple flutter UI by including common widgets.

Theory:

Common Widgets used are:

Scaffold: Represents the basic material design visual structure. It provides functionality like the AppBar, Drawer, BottomNavigationBar, and body of the app.

AppBar: Represents the top app bar that usually contains the app's title and actions.

Padding: Adds padding around its child widget.

Container: A box model that can contain other widgets and provides styling properties.

Positioned: Positions a child within a stack relative to the top-left corner.

Text: Displays a paragraph of text with various styling options.

TextField: Allows the user to enter text.

Column: A widget that displays its children in a vertical array.

Row: A widget that displays its children in a horizontal array.

Image.asset: Loads an image from an asset bundle.

GestureDetector: A widget that detects gestures.

BottomNavigationBar: A material design widget that displays a horizontal row of three to five icons and labels at the bottom of the screen.

```

import 'package:flutter/material.dart';
//import 'dart:ui' as ui;

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

class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: HomePage(),
    );
  }
}

class HomePage extends StatefulWidget {
  const HomePage({Key? key}) : super(key: key);

  @override
  State<HomePage> createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(body: LoginScreen());
  }
}

class HomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      // appBar: AppBar(

      // ),
      body: Padding(
        padding: const EdgeInsets.only(top: 50.0),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.start,
          crossAxisAlignment: CrossAxisAlignment.start,

```

```

children: [
  Stack(
    children: [
      Container(
        color: Colors.white,
        height: 40.0,
        width: double.infinity,
        margin: const EdgeInsets.only(top: 15.0),
      ),
      Positioned(
        left: 80.0,
        top: 10.0 + (30.0 - 16.0) / 2,
        child: Text(
          "FlipKart",
          style: TextStyle(
            color: Colors.blueAccent,
            fontSize: 25.0,
            fontWeight: FontWeight.bold,
          ),
        ),
      ),
      SizedBox(width: 2.0),
      Positioned(
        top: 0.0,
        left: 30.0,
        child: Image.asset(
          'assets/flipkartlogo.jpg',
          height: 70.0,
          width: 40.0,
        ),
      ),
    ],
  ),
  SizedBox(height: 5.0),
  Padding(
    padding: const EdgeInsets.fromLTRB(16.0, 15.0, 16.0, 15.0),
    child: TextField(
      decoration: InputDecoration(
        hintText: "Search",
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(8.0),
        ),
      ),
      contentPadding:
        EdgeInsets.symmetric(vertical: 12.0, horizontal: 16.0),
    ),
  ),
),

```

```

        prefixIcon: Icon(Icons.search),
        suffixIcon: Icon(Icons.mic),
      ),
    ),
  ),
  Scrollbar(
    child: SingleChildScrollView(
      child: Column(
        children: [
          // Add more widgets/components as needed
        ],
      ),
    ),
  ),
  ),
  SizedBox(height: 0.0),
  Padding(
    padding: EdgeInsets.symmetric(horizontal: 10.0),
    child: ClipRRect(
      borderRadius: BorderRadius.circular(20.0),
      child: Image.asset(
        'assets/main.jpeg',
        height: 130.0,
        width: double.infinity,
        fit: BoxFit.fitWidth,
      ),
    ),
  ),
  ),
  ),
  SizedBox(height: 10.0),
  Row(
    mainAxisAlignment: MainAxisAlignment.spaceEvenly,
    children: [
      Column(
        children: [
          Icon(Icons.arrow_back_ios_new_rounded, size: 15.0),
          SizedBox(height: 0.0),
        ],
      ),
      Column(
        children: [
          GestureDetector(
            onTap: () {
              _navigateToItemDescription(context, 'assets/chair.png');
            },
            child: Column(

```

```

        children: [
          SizedBox(height: 0.0),
          Image.asset(
            'assets/chair.png',
            height: 80.0,
            width: 50.0,
          ),
          SizedBox(height: 0.0),
          Text('Furniture'),
        ],
      ),
    ),
  ],
),
Column(
  children: [
    GestureDetector(
      onTap: () {
        _navigateToItemDescription(
          context, 'assets/beauty.png');
      },
      child: Column(
        children: [
          SizedBox(height: 0.0),
          Image.asset(
            'assets/beauty.png',
            height: 80.0,
            width: 50.0,
          ),
          SizedBox(height: 0.0),
          Text('Beauty'),
        ],
      ),
    ),
  ],
),
Column(
  children: [
    GestureDetector(
      onTap: () {
        _navigateToItemDescription(
          context, 'assets/mobile.png');
      },
      child: Column(

```

```

        children: [
          SizedBox(height: 0.0),
          Image.asset(
            'assets/mobile.png',
            height: 80.0,
            width: 50.0,
          ),
          SizedBox(height: 0.0),
          Text('Mobiles'),
        ],
      ),
    ),
  ],
),
Column(
  children: [
    GestureDetector(
      onTap: () {
        _navigateToItemDescription(
          context, 'assets/watchbg.png');
      },
      child: Column(
        children: [
          SizedBox(height: 0.0),
          Image.asset(
            'assets/watchbg.png',
            height: 80.0,
            width: 50.0,
          ),
          SizedBox(height: 0.0),
          Text('Watches'),
        ],
      ),
    ),
  ],
),
Column(
  children: [
    Icon(Icons.arrow_forward_ios_rounded, size: 15.0),
    SizedBox(height: 0.0),
  ],
),
],
),

```

```

    SizedBox(height: 0.0),
    Padding(
      padding: EdgeInsets.fromLTRB(15.0, 10.0, 15.0, 10.0),
      child: ClipRRect(
        borderRadius: BorderRadius.circular(20.0),
        child: Image.asset(
          'assets/offer.jpeg',
          height: 80.0,
          width: double.infinity,
          fit: BoxFit.fitWidth,
        ),
      ),
    ),
    SizedBox(height: 0.0),
    Row(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
        GestureDetector(
          onTap: () {
            _navigateToItemDescription(context, 'assets/watch.png');
          },
          child: Container(
            width: 100.0,
            height: 150.0,
            margin: EdgeInsets.all(0.0),
            decoration: BoxDecoration(
              border: Border.all(color: Colors.black),
              borderRadius: BorderRadius.circular(10.0),
            ),
            child: Column(
              mainAxisAlignment: MainAxisAlignment.center,
              children: [
                SizedBox(height: 5.0),
                Text('Save 5%'),
                Image.asset(
                  'assets/watch.png',
                  height: 60.0,
                  width: 60.0,
                ),
                SizedBox(height: 0.0),
                Text('Boat Watch'),
              ],
            ),
          ),
        ),
      ],
    ),
  ),

```

```

),
GestureDetector(
  onTap: () {
    _navigateToItemDescription(context, 'assets/mobile.png');
  },
  child: Container(
    width: 100.0,
    height: 150.0,
    margin: EdgeInsets.all(0.0),
    decoration: BoxDecoration(
      border: Border.all(color: Colors.black),
      borderRadius: BorderRadius.circular(10.0),
    ),
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        SizedBox(height: 5.0),
        Text('Save 5%'),
        Image.asset(
          'assets/mobile.png',
          height: 60.0,
          width: 60.0,
        ),
        SizedBox(height: 0.0),
        Text('iPhone'),
      ],
    ),
  ),
),
),
],
),
SizedBox(
  height: 103.0,
  child: Container(
    margin: EdgeInsets.only(top: 20.0),
    child: BottomNavigationBar(
      items: const <BottomNavigationBarItem>[
        BottomNavigationBarItem(
          icon: Icon(Icons.home),
          label: 'Home',
        ),
        BottomNavigationBarItem(
          icon: Icon(Icons.shopping_cart),
          label: 'Cart',

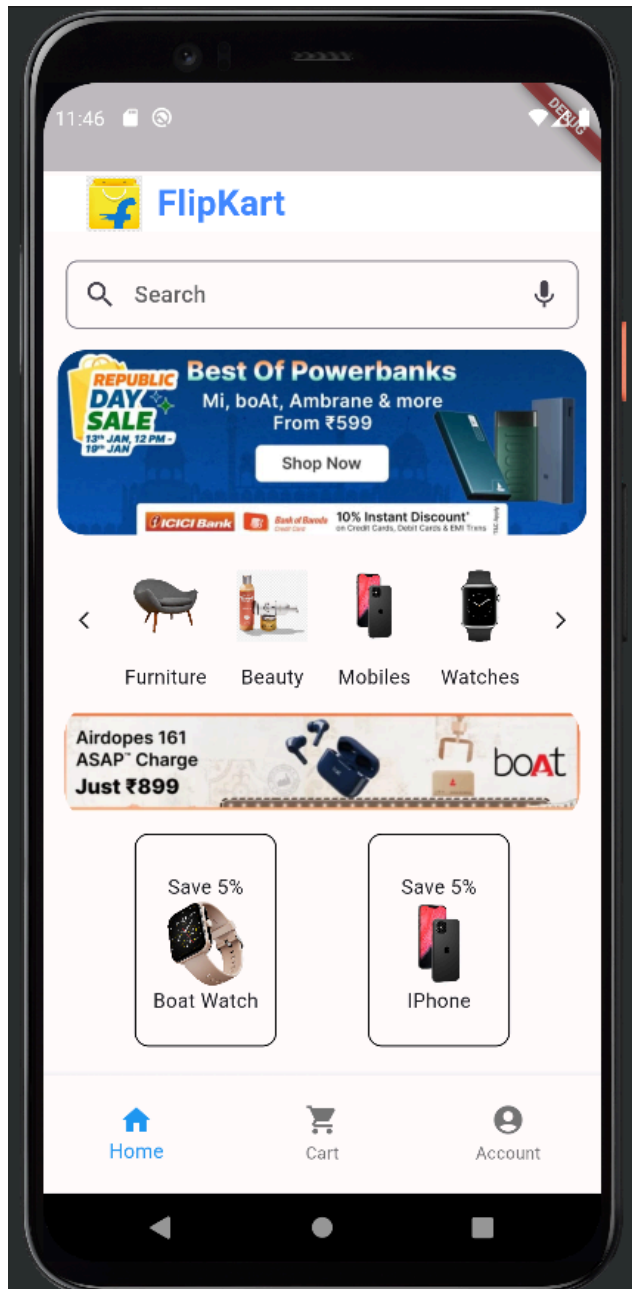
```



```

    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.account_circle),
      label: 'Account',
    ),
  ],
  selectedItemColor: Colors.blue,
  onTap: (index) {
    if (index == 2) {
      // Check if 'Account' is tapped
      Navigator.of(context).push(
        MaterialPageRoute(
          builder: (context) => AccountScreen(),
        ),
      );
    }
    if (index == 1) {
      Navigator.of(context).push(
        MaterialPageRoute(
          builder: (context) => CartScreen(),
        ),
      );
    }
  },
),
),
)
],
),
),
);
}
}

```



Conclusion:

To design simple flutter UI by including common widgets.