

PARSHVANATH CHARITABLE TRUST'S

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Department of Information Technology

Academic Year: 2024-25

Semester: VI

Class / Branch / Div: TE- IT A/B/C

Subject: MAD & PWA Lab

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Roll No. 17

Date of Submission: 03/02/25

Experiment No.:3

Aim: To design a layout of Flutter App using layout widgets.

Prerequisites: Android studio, flutter SDK_.

Problem Statement: To develop a flutter UI for creating List View using Layout widgets of flutter.

Software: Android studio, flutter SDK_.

Code:

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

```
void main() => runApp(MyApp());
```

```
class MyApp extends StatelessWidget {
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return MaterialApp(
```

```
      title: 'Flutter Demo',
```

```
      theme: ThemeData(
```

```
        primarySwatch: Colors.blue,
```

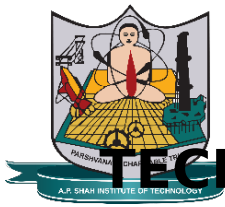
```
    ),
```

```
    home: MyHomePage(title: 'Flutter Demo Home Page'),
```

```
  );
```

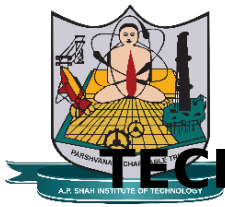
```
}
```

```
}
```



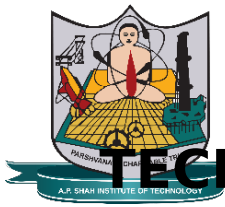
```
class MyHomePage extends StatelessWidget {  
  MyHomePage({Key? key, required this.title}) : super(key: key);  
  
  final String title;  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      backgroundColor: Colors.teal,  
      appBar: AppBar(  
        title: Text("Product List"),  
        backgroundColor: Colors.black,  
        foregroundColor: Colors.white,  
      ),  
      body: ListView(  
        padding: const EdgeInsets.fromLTRB(3.0, 12.0, 3.0, 12.0),  
        children: <Widget>[  
          ProductBox(  
            color: Colors.amberAccent,  
            name: "iPhone",  
            description: "iPhone is the top branded phone ever",  
            price: 55000,  
            images: "assets/images/iphone.jpeg"),  
          ProductBox(  
            color: Colors.indigo,  
            name: "Android",  
            description: "Android is a very stylish phone",  
            price: 10000,  
            images: "assets/images/android.png"),  
          ProductBox(  

```



```
color: Colors.pinkAccent,  
name: "Tablet",  
description: "Tablet is a popular device for official meetings",  
price: 25000,  
images: "assets/images/tablet.jpeg"),  
ProductBox(  
color: Colors.greenAccent,  
name: "Laptop",  
description: "Laptop is most famous electronic device",  
price: 35000,  
images: "assets/images/laptop.jpeg"),  
ProductBox(  
color: Colors.blueGrey,  
name: "Desktop",  
description: "Desktop is most popular for regular use",  
price: 10000,  
images: "assets/images/computer.jpeg"),  
],  
,  
);  
}  
}
```

```
class ProductBox extends StatelessWidget {  
ProductBox(  
{Key? key,  
required this.name,  
required this.description,  
required this.price,
```

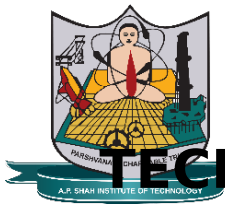


```
required this.color,  
required this.images}}  
: super(key: key);  
final String name;  
final String description;  
final int price;  
final Color color;  
final String images;
```

```
@override
```

```
Widget build(BuildContext context) {  
  return Container(  
    padding: EdgeInsets.all(2),  
    height: 110,  
    child: Card(  
      color: color,  
      child: Row(  
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,  
        children: <Widget>[  
          // Set uniform height and width for all images  
          Image.asset(  
            images,  
            height: 80, // Set a fixed height  
            width: 80, // Set a fixed width  
            fit: BoxFit  
              .contain, // Make sure image fits within the container  
            ),  
          Expanded(  
            child: Container(  

```



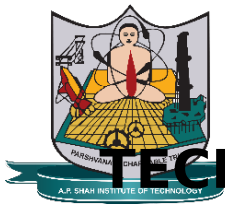
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```
padding: EdgeInsets.all(5),  
child: Column(  
  mainAxisAlignment: MainAxisAlignment.spaceEvenly,  
  children: <Widget>[  
    Text(this.name,  
      style:  
        TextStyle(fontWeight: FontWeight.bold)),  
    Text(this.description),  
    Text("Price: " + this.price.toString()),  
  ],  
))  
]]);  
}  
}
```

Output:





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Conclusion: In this experiment we have designed a layout by using flutter various layout widgets.