Lab Report

Course Code: CSE 335

Course Name: Pervasive Computing and Mobile App Development Lab

Lab Report No: 04

Lab Report Name : ListView, ListView,builder, ListView.Seperator,BottomNavigationBar Example

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Submitted To :

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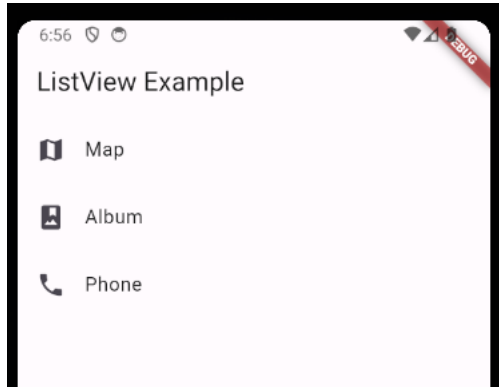**Name:** Rayhan Rafin

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Section: 60_B1

ListView:-

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('ListView Example'),
        ),
        body: ListView(
          children: <Widget>[
            ListTile(
              leading: Icon(Icons.map),
              title: Text('Map'),
            ),
            ListTile(
              leading: Icon(Icons.photo_album),
              title: Text('Album'),
            ),
            ListTile(
              leading: Icon(Icons.phone),
              title: Text('Phone'),
            ),
          ],
        ),
      ),
    );
  }
}
```
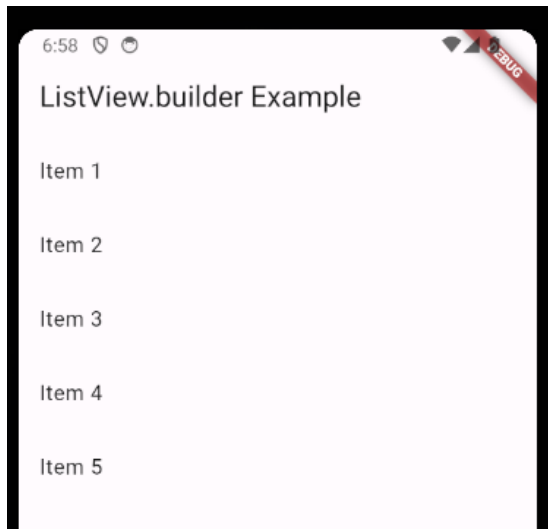
Output:

ListView.builder:-

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('ListView.builder Example'),
        ),
        body: ListView.builder(
          itemCount: 5,
          itemBuilder: (context, index) {
            return ListTile(
              title: Text('Item ${index + 1}'),
            );
          },
        ),
      ),
    );
  }
}
```

Output:

ListView.Seperator:-

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('ListView.separated Example'),
        ),
        body: ListView.separated(
          itemCount: 5,
          itemBuilder: (BuildContext context, int index) {
            return ListTile(
              title: Text('Item ${index + 1}'),
            );
          },
          separatorBuilder: (BuildContext context, int index) {
```
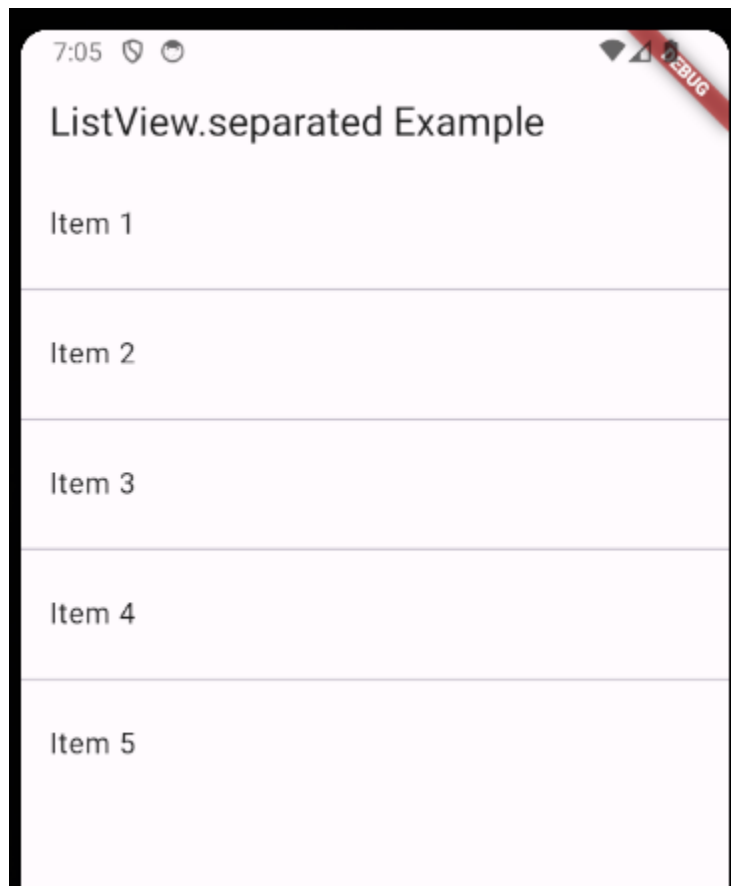
```
            return Divider();
          },
        ),
      ),
    );
  }
}
```

Output:

BottomNavigationBar:-

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

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

class MyApp extends StatelessWidget {
```

```dart
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Rayhan'),
        ),
        bottomNavigationBar: BottomNavigationBar(
          items: const <BottomNavigationBarItem>[
            BottomNavigationBarItem(
              icon: Icon(Icons.home),
              label: 'Home',
            ),
            BottomNavigationBarItem(
              icon: Icon(Icons.business),
              label: 'Business',
            ),
            BottomNavigationBarItem(
              icon: Icon(Icons.school),
              label: 'School',
            ),
          ],
        ),
      ),
    );
  }
}
```

Output: