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Jurnal Praktikum Modul 10

1. Row

Row adalah sebuah widget yang digunakan untuk mengatur widget-child dalam sebuah baris horizontal. Dengan menggunakan widget Row, kita dapat menempatkan satu atau beberapa widget di dalam satu baris, sehingga dapat mengatur tampilan dari beberapa widget menjadi lebih rapi dan terstruktur.

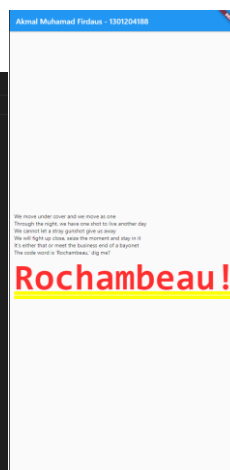
```
import 'package:flutter/material.dart';
//Akmal Muhamad Firdaus - 1301204188
void main() {
  runApp(MaterialApp(
    debugShowCheckedNodeBanner: false,
    home: Row(
      children: <Widget>[
        const FlutterLogo(),
        const Expanded(
          child: Text(
            'Flutter's hot reload helps you quickly and easily experiment, build UIs, addfeatures, and fix bug faster. Experience sub-second reload times, without losing state, onemulators, simulators, and hardware for iOS and Android.',
          ), // Expanded
        const Icon(Icons.sentiment_very_satisfied),
      ], // <Widget>[]
    ), // Row
  )); // MaterialApp
}
```

Flutter's hot reload helps you quickly and easily experiment, build UIs, addfeatures, and fix bug faster. Experience sub-second reload times, without losing state, onemulators, simulators, and hardware for iOS and Android.

2. Column

Column adalah sebuah widget yang digunakan untuk mengatur widget-child dalam sebuah kolom vertikal. Dengan menggunakan widget Column, kita dapat menempatkan satu atau beberapa widget di dalam satu kolom, sehingga dapat mengatur tampilan dari beberapa widget menjadi lebih rapi dan terstruktur.

```
// Akmal Muhamad Firdaus - 1301204188
child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  mainAxisAlignment: MainAxisAlignment.min,
  children: <Widget>[
    const Text('We move under cover and we move as one'),
    const Text(
      'Through the night, we have one shot to live another day'), // Text
    const Text('We cannot let a stray gunshot give us away'),
    const Text(
      'We will fight up close, seize the moment and stay in it'), // Text
    const Text(
      'It's either that or meet the business end of a bayonet'), // Text
    const Text('The code word is "Rochambeau, dig me?'),
    Text('Rochambeau!',
      style: DefaultTextStyle.of(context)
        .style
        .apply(fontSizeFactor: 2.0)), // Text
  ], // <Widget>[]
), // Column
```



3. Nested Rows & Columns

Nested Rows & Columns pada Flutter merujuk pada penggunaan Row dan Column yang bersarang di dalam Row atau Column lainnya. Ini berarti kita dapat menempatkan Row dan Column di dalam Row atau Column lainnya, sehingga membuat layout menjadi lebih kompleks dan dapat disesuaikan sesuai kebutuhan.

```
import 'package:flutter/material.dart';
import 'package:flutter/rendering.dart' show debugPaintSizeEnabled;

Run(Debug|Profile)
void main() {
  debugPaintSizeEnabled = false; // Set to true for visual layout
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter layout demo',
      home: buildHomePage('Strawberry Pavlova Recipe'),
    );
  }

  Widget buildHomePage(String title) {
    const titleText = Padding(
      padding: EdgeInsets.all(20),
      child: Text(
        'Strawberry Pavlova',
        style: TextStyle(
          fontWeight: FontWeight.w800,
          letterSpacing: 0.5,
          fontSize: 38,
        ), // TextStyle
      ), // Padding
    );

    const subtitle = Text(
      'Pavlova is a meringue-based dessert named after the Russian ballerina '
      'Anna Pavlova. Pavlova features a crisp crust and soft, light inside, '
      'topped with fruit and whipped cream.',
      textAlign: TextAlign.center,
      style: TextStyle(
        fontFamily: 'Georgia',
        fontSize: 25,
      ), // TextStyle
    ); // Text

    const mainImage = Image.asset(
      'images/telu.png',
      fit: BoxFit.cover,
    );

    return Scaffold(
      appBar: AppBar(
        title: Text(title),
      ), // AppBar
      body: Center(
        child: Container(
          margin: const EdgeInsets.fromLTRB(0, 40, 0, 30),
          height: 400,
          child: Row(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              SizedBox(
                width: 400,
                child: LeftColumn(
                  mainImage,
                ), // Row
              ), // Card
            ], // Container
          ), // Center
        ), // Scaffold
      ),
    );
  }
}

var stars = Row(
  mainAxisAlignment: MainAxisAlignment.min,
  children: [
    Icon(Icons.star, color: Colors.green[500]),
    Icon(Icons.star, color: Colors.green[500]),
    Icon(Icons.star, color: Colors.green[500]),
    const Icon(Icons.star, color: Colors.black),
    const Icon(Icons.star, color: Colors.black),
  ],
); // Row

final ratings = Container(
  padding: const EdgeInsets.all(20),
  child: Row(
    mainAxisAlignment: MainAxisAlignment.spaceEvenly,
    children: [
      stars,
      const Text(
        '170 Reviews',
        style: TextStyle(
          color: Colors.black,
          fontWeight: FontWeight.w800,
          fontFamily: 'Roboto',
          letterSpacing: 0.5,
          fontSize: 20,
        ), // TextStyle
      ), // Text
    ], // Row
  ); // Container

const descTextStyle = TextStyle(
  color: Colors.black,
  fontWeight: FontWeight.w800,
  fontFamily: 'Roboto',
  letterSpacing: 0.5,
  fontSize: 18,
  height: 2,
); // Row

final iconList = DefaultTextStyle.merge(
  style: descTextStyle,
  child: Container(
    padding: const EdgeInsets.all(20),
    child: Row(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
        Column(
          children: [
            Icon(Icons.kitchen, color: Colors.green[500]),
            const Text('PREP:'),
            const Text('25 min'),
          ], // Column
        ), // Column
        Column(
          children: [
            Icon(Icons.timer, color: Colors.green[500]),
            const Text('COOK:'),
            const Text('1 hr'),
          ], // Column
        ), // Column
        Column(
          children: [
            Icon(Icons.restaurant, color: Colors.green[500]),
            const Text('FEEDS:'),
            const Text('4-6'),
          ], // Column
        ), // Row
      ], // Container
    ), // Column
  ); // Container

final leftColumn = Container(
  padding: const EdgeInsets.fromLTRB(20, 30, 20, 20),
  child: Column(
    children: [
      titleText,
      subtitle,
      ratings,
      iconList,
    ], // Column
  ), // Container
); // Container
```

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Strawberry Pavlova

Pavlova is a meringue-based dessert named after the Russian ballerina Anna Pavlova. Pavlova features a crisp crust and soft, light inside, topped with fruit and whipped cream.

★★★★★ 170 Reviews

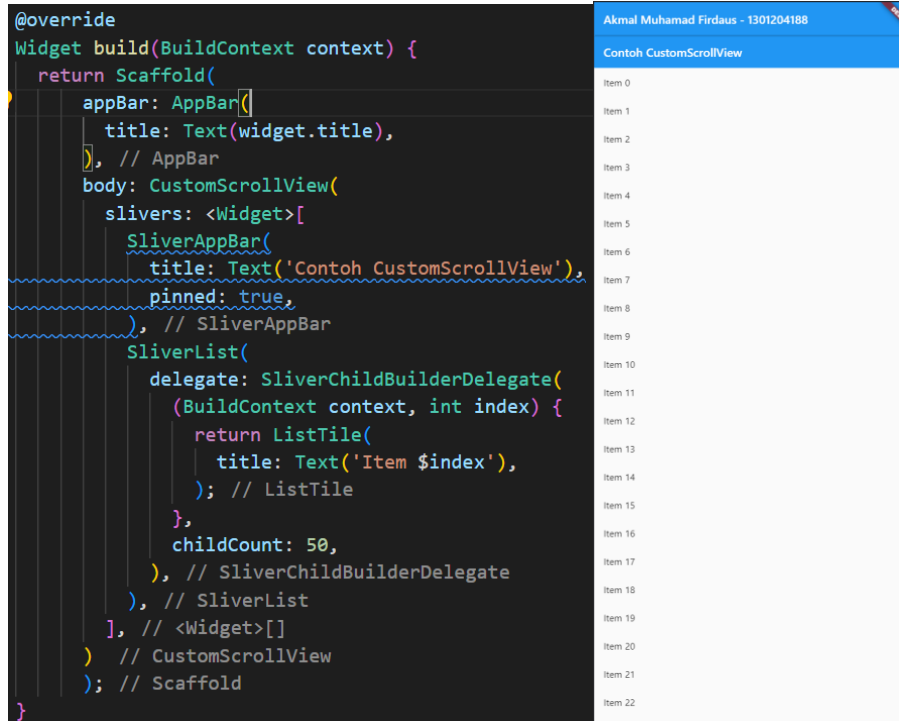
		
PREP:	COOK:	FEEDS:
25 min	1 hr	4-6



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4. CustomScrollView

CustomScrollView adalah widget yang memungkinkan kita membuat daftar atau grid yang dapat di-scroll dengan lebih fleksibel dan custom dibandingkan dengan widget ListView atau GridView bawaan. CustomScrollView juga dapat digunakan untuk menggabungkan berbagai jenis widget yang dapat di-scroll, seperti SliverAppBar, SliverList, dan SliverGrid.



Full Source Code : <https://github.com/codernewbie04/CII3H4-ABP-Praktikum>