

TUGAS 10
PRAK11 Rating App



Praktikum Pemrograman Berbasis Web - A

Nama :

Adelia Nurlina Putri

4521210059

PROGRAM STUDI S1 TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS PANCASILA

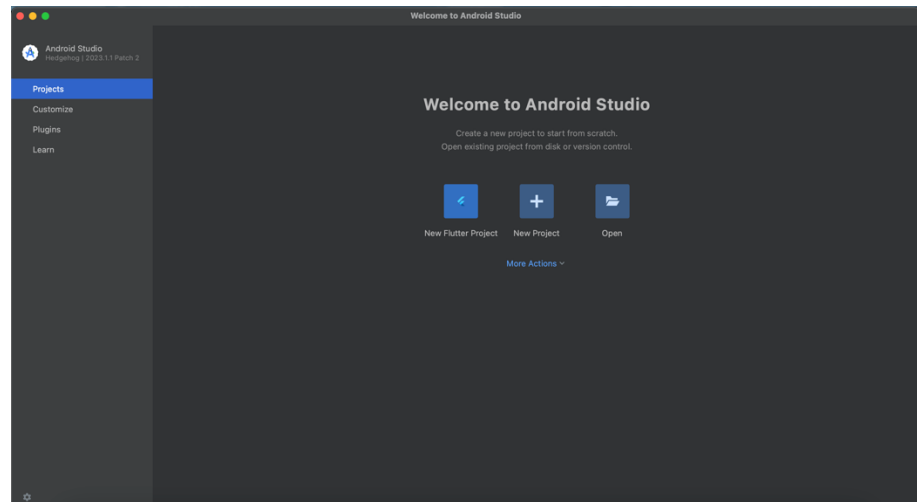
JAKARTA

2024

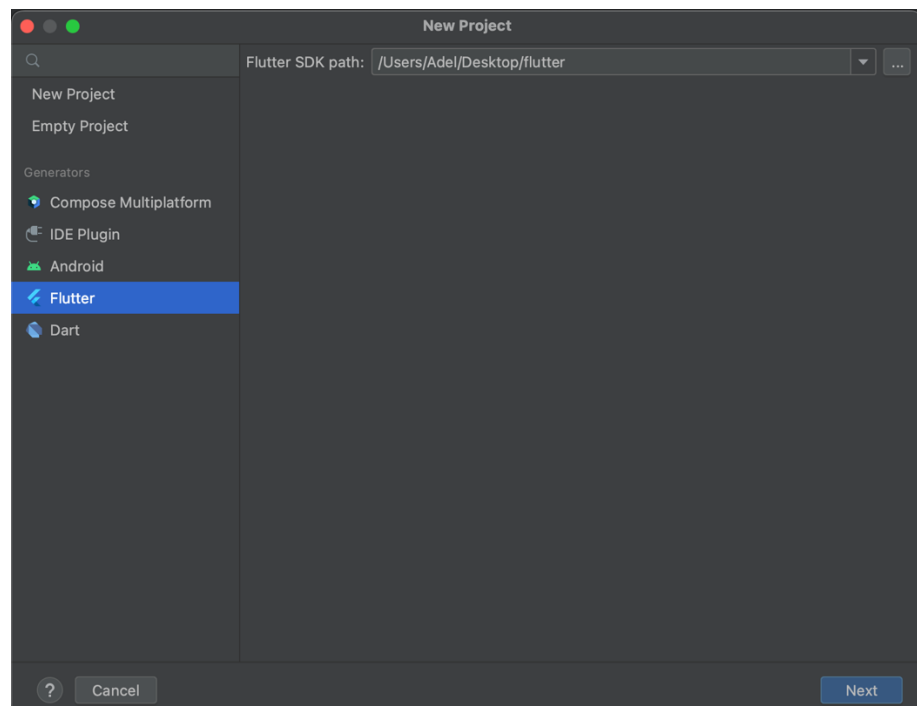
A. Project rating_app

a. First Initialization

1. Akses web <https://docs.flutter.dev/ui/layout/tutorial>
2. Buka Android Studio



3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create

New Project

Project name:

Project location: ...

Description:

Project type:

Organization:

Android language: ☐ Java ☒ Kotlin

iOS language: ☐ Objective-C ☒ Swift

Platforms: ☒ Android ☒ iOS ☐ Linux ☐ MacOS ☒ Web ☐ Windows

When created, the new project will run on the selected platforms (others can be added later).

☐ Create project offline

▼ More Settings

Module name:

Content root: ...

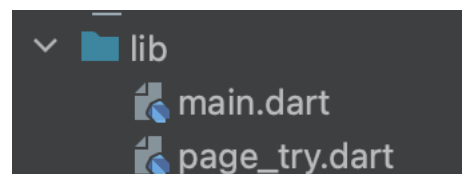
Module file location: ...

Project format:

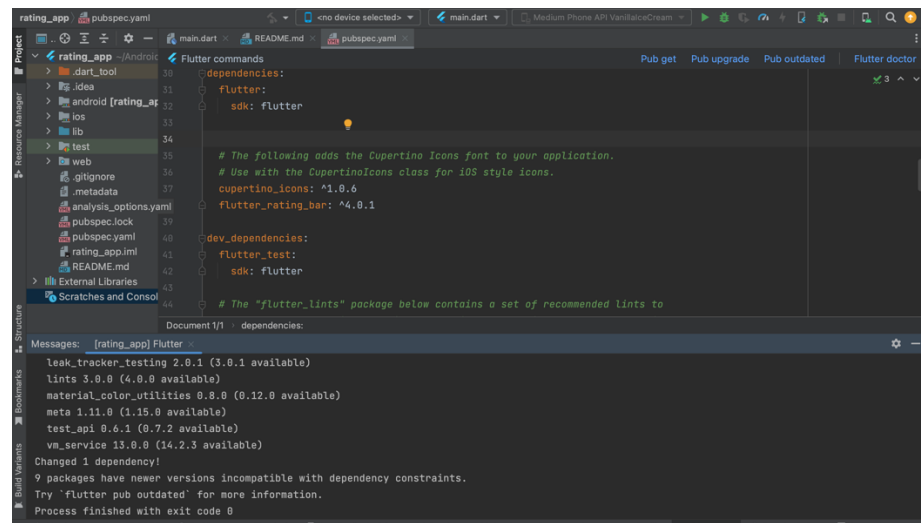
? Cancel Previous **Create**

b. Membuat App

1. Buat file dengan susunan seperti berikut



2. Add package ke pubspec.yaml



flutter_rating_bar: ^4.0.1

\$ flutter pub add

3. File page_try.dart membuat widget stateful RatingScreen

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

class RatingScreen extends StatefulWidget {
  const RatingScreen({super.key});

  @override
  State<RatingScreen> createState() =>
    RatingScreenState();
}

class _RatingScreenState extends State<RatingScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold();
  }
}
```

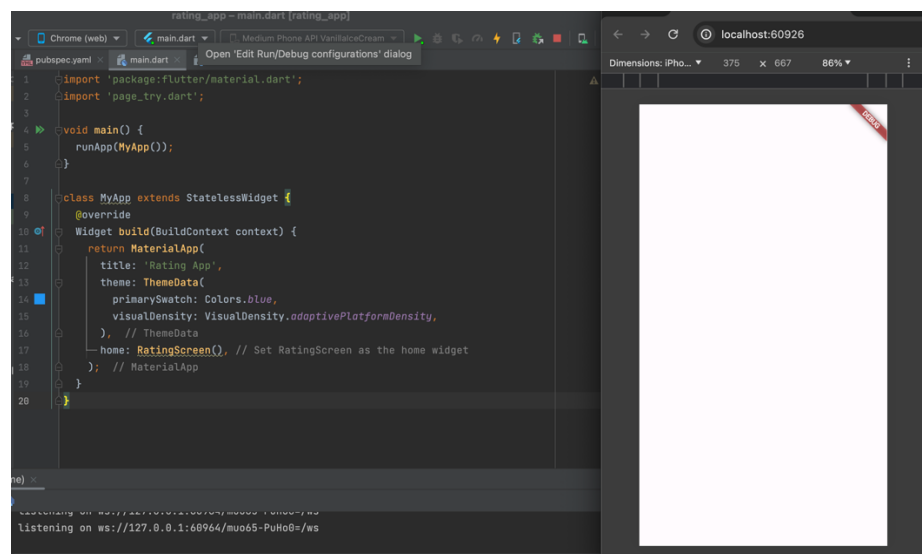
4. File main.dart

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

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

class MyApp extends StatelessWidget {
  @override
```

```
Widget build(BuildContext context) {
  return MaterialApp(
    title: 'Rating App',
    theme: ThemeData(
      primarySwatch: Colors.blue,
      visualDensity:
VisualDensity.adaptivePlatformDensity,
    ),
    home: RatingScreen(), // Set RatingScreen as the
home widget
  );
}
```



5. Tambah appBar, body, dan widget RatingBar.builder pada RatingScreen ()

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

class RatingScreen extends StatefulWidget {
  const RatingScreen({super.key});

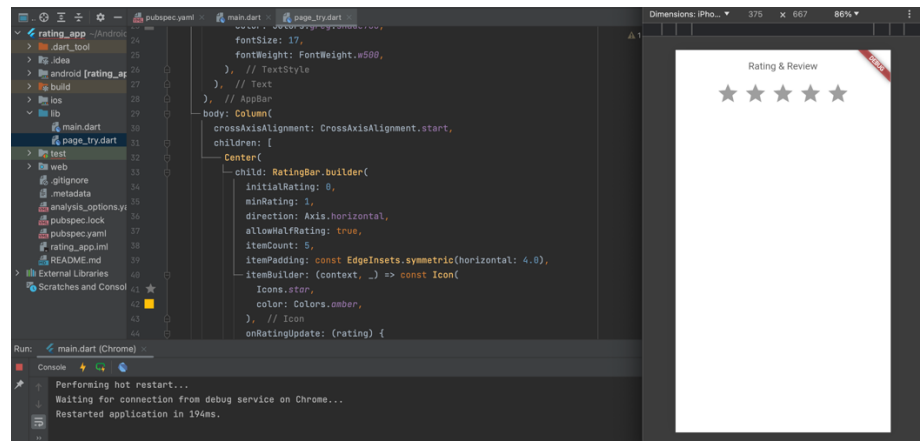
  @override
  State<RatingScreen> createState() =>
RatingScreenState();
}

class _RatingScreenState extends State<RatingScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```

        backgroundColor: Colors.white,
        appBar: AppBar(
          backgroundColor: Colors.white,
          elevation: 0,
          centerTitle: true,
          title: Text(
            'Rating & Review',
            style: TextStyle(
              color: Colors.grey.shade700,
              fontSize: 17,
              fontWeight: FontWeight.w500,
            ),
          ),
        ),
      ),
      body: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Center(
            child: RatingBar.builder(
              initialRating: 0,
              minRating: 1,
              direction: Axis.horizontal,
              allowHalfRating: true,
              itemCount: 5,
              itemPadding: const
EdgeInsets.symmetric(horizontal: 4.0),
              itemBuilder: (context, _) => const Icon(
                Icons.star,
                color: Colors.amber,
              ),
              onRatingUpdate: (rating) {
                print(rating);
              },
            ),
          ),
        ],
      ),
    );
  }
}

```



6. File `add_screen.dart` Tambahkan juga text dan container untuk informasi rata-rata rating dan total reviewnya serta running kembali aplikasinya

```

        SizedBox(height: 10),
        Center(
          child: Text(
            "Anda memiliki jumlah 0 penilaian  
dan\nrata-rata 0 penilaian",
            textAlign: TextAlign.center,
            style: TextStyle(
              color: Colors.grey.shade500,
              fontSize: 15,
              fontWeight: FontWeight.w400,
            ),
          ),
        ),
        SizedBox(height: 20),
        Row(
          mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
          children: [
            Container(
              height: 100,
              width:
MediaQuery.of(context).size.width * 0.45,
              decoration: BoxDecoration(
                color: Colors.grey.shade200,
                borderRadius:
BorderRadius.circular(10),
              ),
              child: Column(
                mainAxisAlignment:
MainAxisAlignment.center,
                crossAxisAlignment:
CrossAxisAlignment.center,
                children: [

```



```

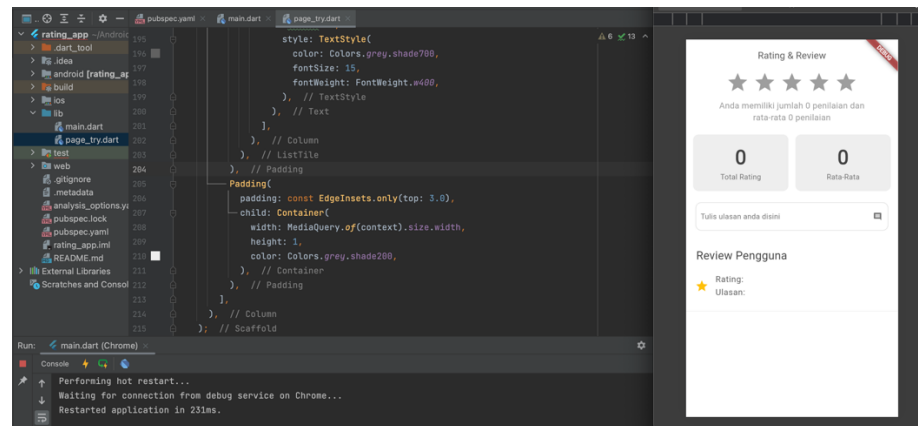
        InkWell(
          onTap: () {},
          child: Center(
            child: Container(
              height: 50,
              width:
MediaQuery.of(context).size.width * 0.91,
              decoration: BoxDecoration(
                border: Border.all(color:
Colors.grey.shade300),
                borderRadius:
BorderRadius.circular(10),
              ),
              child: Padding(
                padding: const EdgeInsets.only(left:
8.0, right: 10),
                child: Row(
                  mainAxisAlignment:
MainAxisAlignment.spaceBetween,
                  children: [
                    Text(
                      "Tulis ulasan anda disini",
                      style: TextStyle(
                        color: Colors.grey.shade600,
                        fontSize: 13,
                        fontWeight: FontWeight.w400,
                      ),
                    ),
                    Icon(
                      Icons.comment,
                      size: 16,
                      color: Colors.grey.shade600,
                    ),
                  ],
                ),
              ),
            ),
          ),
        ),
        SizedBox(height: 30),
        Padding(
          padding: const EdgeInsets.only(left: 18.0),
          child: Text(
            "Review Pengguna",
            style: TextStyle(
              color: Colors.grey.shade800,
              fontSize: 20,
              fontWeight: FontWeight.w500,
            ),
          ),
        ),
        SizedBox(height: 8),
        Padding(
          padding: const EdgeInsets.only(bottom:
10.0),
          child: ListTile(

```

```

        leading: const Icon(
          Icons.star,
          color: Colors.amber,
        ),
        title: Column(
          crossAxisAlignment:
CrossAxisAlignment.start,
          children: [
            Text(
              'Rating: ',
              style: TextStyle(
                color: Colors.grey.shade700,
                fontSize: 15,
                fontWeight: FontWeight.w400,
              ),
            ),
            Text(
              'Ulasan: ',
              style: TextStyle(
                color: Colors.grey.shade700,
                fontSize: 15,
                fontWeight: FontWeight.w400,
              ),
            ),
          ],
        ),
      ),
    ),
  ),
  Padding(
    padding: const EdgeInsets.only(top: 3.0),
    child: Container(
      width: MediaQuery.of(context).size.width,
      height: 1,
      color: Colors.grey.shade200,
    ),
  ),
],
),
);
}
}

```



7. Pada widget `InkWell`, tambahkan `onTap: showDialog: () {}` (code dibawah), untuk memberikan pop up halaman ketika tombol bar ditekan

```
class _RatingScreenState extends State<RatingScreen> {
  final TextEditingController _reviewController =
    TextEditingController();

  @override
  void dispose() {
    _reviewController.dispose();
    super.dispose();
  }

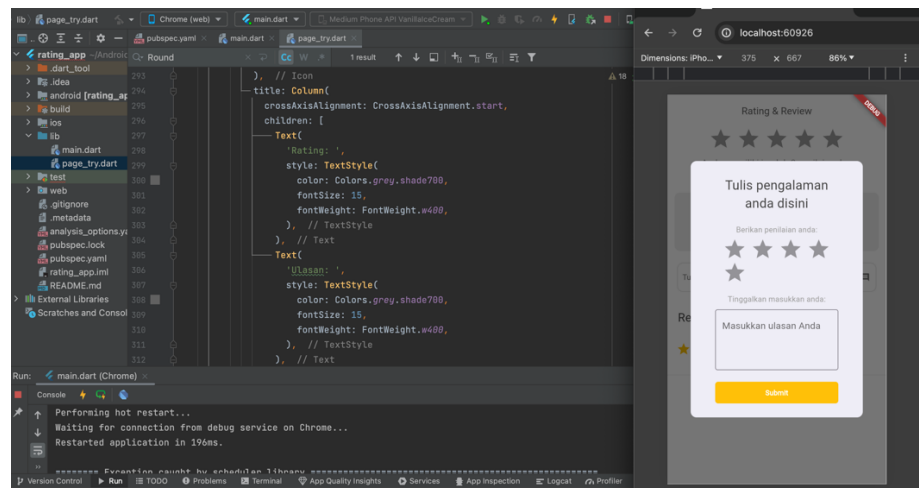
  @override
  Widget build(BuildContext context) {
    // kode selanjutnya
  }
}

InkWell(
  onTap: () {
    showDialog(
      context: context,
      builder: (context) {
        return AlertDialog(
          shape: RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(10),
          ),
          backgroundColor: Colors.white,
          elevation: 5,
          content: SizedBox(
            width: MediaQuery.of(context).size.width,
            height: 350,
            child: Padding(
              padding: const EdgeInsets.only(left:
                18.0, right: 18),
              child: Center(
```

```

child: Column(children: [
  SizedBox(height: 10),
  Text(
    "Tulis pengalaman anda disini",
    textAlign: TextAlign.center,
    style: TextStyle(
      color: Colors.grey.shade800,
      fontSize: 22,
      fontWeight: FontWeight.w500,
    ),
  ),
  SizedBox(height: 20),
  Text(
    'Berikan penilaian anda:',
    style: TextStyle(
      color: Colors.grey.shade500,
      fontSize: 13,
      fontWeight: FontWeight.w400,
    ),
  ),
  SizedBox(height: 4.0),
  Center(
    child: RatingBar.builder(
      initialRating: 0,
      minRating: 1,
      direction: Axis.horizontal,
      allowHalfRating: true,
      itemCount: 5,
      itemPadding: const
EdgeInsets.symmetric(horizontal: 4.0),
      itemBuilder: (context, _) =>
const Icon(
      Icons.star,
      color: Colors.amber,
    ),
    onRatingUpdate: (rating) {},
  ),
  SizedBox(height: 16.0),
  Text(
    'Tinggalkan masukan anda:',
    style: TextStyle(
      color: Colors.grey.shade500,
      fontSize: 13,
      fontWeight: FontWeight.w400,
    ),
  ),
  SizedBox(height: 8.0),
  TextField(
    controller: _reviewController,
    decoration: InputDecoration(
      hintText: 'Masukkan ulasan Anda',
      border: OutlineInputBorder(),
    ),
    maxLines: 3,
  ),

```

```
// Tambah Variabel
final TextEditingController _reviewController =
    TextEditingController();
double _currentRating = 0.0;
List<double> _ratings = [];
List<String> _reviews = [];

// Fungsi _submitRating

void _submitRating() {
    setState(() {
        _ratings.add(_currentRating);
        _reviews.add(_reviewController.text);
        _currentRating = 0.0;
        _reviewController.clear();
    });
}
```

```
// Fungsi _calculateAverageRating
double _calculateAverageRating() {
  if (_ratings.isEmpty) {
    return 0.0;
  } else {
    double totalRating = _ratings.reduce((value,
    element) => value + element);
    return totalRating / _ratings.length;
  }
}
```

9. Tambahkan initialRating dan onRatingUpdate

```
//RatingBar.builder
RatingBar.builder(
  initialRating: _calculateAverageRating(),
  minRating: 1,
  direction: Axis.horizontal,
  allowHalfRating: true,
  itemCount: 5,
  itemPadding: const EdgeInsets.symmetric(horizontal:
4.0),
  itemBuilder: (context, _) => const Icon(
    Icons.star,
    color: Colors.amber,
  ),
  onRatingUpdate: (rating) {
    setState(() {
      _currentRating = rating;
    });
  },
),

// InkWell
showDialog(
  context: context,
  builder: (context) {
    return AlertDialog(
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(10),
      ),
      backgroundColor: Colors.white,
      elevation: 5,
      content: SingleChildScrollView(
        child: SizedBox(
          width: MediaQuery.of(context).size.width,
          child: Padding(
            padding: const EdgeInsets.only(left: 18.0,
right: 18),
            child: Center(
              child: Column(children: [
                SizedBox(height: 10),
                Text(
                  "Tulis pengalaman anda disini",

```

```

        textAlign: TextAlign.center,
        style: TextStyle(
          color: Colors.grey.shade800,
          fontSize: 22,
          fontWeight: FontWeight.w500,
        ),
      ),
    ),
    SizedBox(height: 20),
    Text(
      'Berikan penilaian anda:',
      style: TextStyle(
        color: Colors.grey.shade500,
        fontSize: 13,
        fontWeight: FontWeight.w400,
      ),
    ),
    ),
    SizedBox(height: 4.0),
    Center(
      child: RatingBar.builder(
        initialRating: _currentRating,
        minRating: 1,
        direction: Axis.horizontal,
        allowHalfRating: true,
        itemCount: 5,
        itemPadding: const
EdgeInsets.symmetric(horizontal: 4.0),
        itemBuilder: (context, _) => const
Icon(
          Icons.star,
          color: Colors.amber,
        ),
        onRatingUpdate: (rating) {
          setState(() {
            _currentRating = rating;
          });
        },
      ),
    ),
    ),
    SizedBox(height: 16.0),
    Text(
      'Tinggalkan masukan anda:',
      style: TextStyle(
        color: Colors.grey.shade500,
        fontSize: 13,
        fontWeight: FontWeight.w400,
      ),
    ),
    ),
    SizedBox(height: 8.0),
    TextField(
      controller: _reviewController,
      decoration: InputDecoration(
        hintText: 'Masukkan ulasan Anda',
        border: OutlineInputBorder(),
      ),
      maxLines: 3,
    ),
  ),

```



```
children: [
    RatingBarIndicator(
      rating: _ratings[index],
      itemBuilder: (context,
index) => Icon(
        Icons.star,
        color: Colors.amber,
      ),
      itemCount: 5,
      itemSize: 20.0,
      direction: Axis.horizontal,
    ),
    SizedBox(width: 8.0),
    Text(
      _ratings[index].toString(),
      style: TextStyle(
        color:
Colors.grey.shade700,
        fontSize: 14,
        fontWeight:
FontWeight.w500,
      ),
    ),
  ],
),
```

11. Tambahkan nilai rating dan rata-rata rating

```
Center(
  child: Text(
    "Anda memiliki jumlah ${_ratings.length} penilaian
dan\nrata-rata
${_calculateAverageRating().toStringAsFixed(1)}
penilaian",
    textAlign: TextAlign.center,
    style: TextStyle(
      color: Colors.grey.shade500,
      fontSize: 15,
      fontWeight: FontWeight.w400,
    ),
  ),
),
),
//Total

Text(
  "${_ratings.length}",
  style: TextStyle(
    color: Colors.grey.shade800,
    fontSize: 35,
    fontWeight: FontWeight.w600,
  ),
),
),
//kalkulasi
```

```

Text(
  "${_calculateAverageRating().toStringAsFixed(1)}",
  style: TextStyle(
    color: Colors.grey.shade800,
    fontSize: 35,
    fontWeight: FontWeight.w600,
  ),
),

//Tambah listview

Expanded(
  child: ListView.builder(
    itemCount: _ratings.length,
    itemBuilder: (context, index) {
      return Padding(
        padding: const EdgeInsets.symmetric(vertical:
8.0, horizontal: 16.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Row(
              children: [
                RatingBarIndicator(
                  rating: _ratings[index],
                  itemBuilder: (context, index) =>
Icon(
                      Icons.star,
                      color: Colors.amber,
                    ),
                itemCount: 5,
                itemSize: 20.0,
                direction: Axis.horizontal,
              ),
              SizedBox(width: 8.0),
              Text(
                _ratings[index].toString(),
                style: TextStyle(
                  color: Colors.grey.shade700,
                  fontSize: 14,
                  fontWeight: FontWeight.w500,
                ),
              ),
            ],
          ),
          SizedBox(height: 4.0),
          Text(
            _reviews[index],
            style: TextStyle(
              color: Colors.grey.shade700,
              fontSize: 14,
            ),
          ),
          Divider(color: Colors.grey.shade300),
        ],
      ),
    ),
  ),
)

```



```

Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.white,
    appBar: AppBar(
      backgroundColor: Colors.white,
      elevation: 0,
      centerTitle: true,
      title: Text(
        'Rating & Review',
        style: TextStyle(
          color: Colors.grey.shade700,
          fontSize: 17,
          fontWeight: FontWeight.w500,
        ),
      ),
    ),
    body: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Center(
          child: RatingBar.builder(
            initialRating: _calculateAverageRating(),
            minRating: 1,
            direction: Axis.horizontal,
            allowHalfRating: true,
            itemCount: 5,
            itemPadding: const
EdgeInsets.symmetric(horizontal: 4.0),
            itemBuilder: (context, _) => const Icon(
              Icons.star,
              color: Colors.amber,
            ),
            onRatingUpdate: (rating) {
              setState(() {
                _currentRating = rating;
              });
            },
          ),
        ),
        SizedBox(height: 10),
        Center(
          child: Text(
            "Anda memiliki jumlah ${_ratings.length}
penilaian dan\nrata-rata
${_calculateAverageRating().toStringAsFixed(1)}
penilaian",
            textAlign: TextAlign.center,
            style: TextStyle(
              color: Colors.grey.shade500,
              fontSize: 15,
              fontWeight: FontWeight.w400,
            ),
          ),
        ),
        SizedBox(height: 20),
        Row(

```

```

        mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
        children: [
            Container(
                height: 100,
                width:
MediaQuery.of(context).size.width * 0.45,
                decoration: BoxDecoration(
                    color: Colors.grey.shade200,
                    borderRadius:
BorderRadius.circular(10),
                ),
                child: Column(
                    mainAxisAlignment:
MainAxisAlignment.center,
                    crossAxisAlignment:
CrossAxisAlignment.center,
                    children: [
                        Text(
                            "${_ratings.length}",
                            style: TextStyle(
                                color: Colors.grey.shade800,
                                fontSize: 35,
                                fontWeight: FontWeight.w600,
                            ),
                        ),
                        Text(
                            "Total Rating",
                            style: TextStyle(
                                color: Colors.grey.shade600,
                                fontSize: 13,
                                fontWeight: FontWeight.w400,
                            ),
                        ),
                    ],
                ),
            ),
            Container(
                height: 100,
                width:
MediaQuery.of(context).size.width * 0.45,
                decoration: BoxDecoration(
                    color: Colors.grey.shade200,
                    borderRadius:
BorderRadius.circular(10),
                ),
                child: Column(
                    mainAxisAlignment:
MainAxisAlignment.center,
                    crossAxisAlignment:
CrossAxisAlignment.center,
                    children: [
                        Text(
                            "${_calculateAverageRating().toStringAsFixed(1)}",
                            style: TextStyle(

```



```

        anda:',
        style: TextStyle(
          color:
Colors.grey.shade500,
          fontSize: 13,
          fontWeight:
FontWeight.w400,
        ),
      ),
      SizedBox(height: 4.0),
      Center(
        child:
RatingBar.builder(
          _currentRating,
          Axis.horizontal,
          true,
          allowHalfRating:
          itemCount: 5,
          itemPadding: const
EdgeInsets.symmetric(horizontal: 4.0),
          itemBuilder:
(context, _) => const Icon(
            Icons.star,
            color:
Colors.amber,
          ),
          onRatingUpdate:
(rating) {
          setState(() {
            _currentRating =
rating;
          });
        },
      ),
    ),
    SizedBox(height: 16.0),
    Text(
      'Tinggalkan masukan
anda:',
      style: TextStyle(
        color:
Colors.grey.shade500,
        fontSize: 13,
        fontWeight:
FontWeight.w400,
      ),
    ),
    SizedBox(height: 8.0),
    TextField(
      controller:
_reviewController,

```



```

InputDecoration(
  decoration:
    hintText: 'Masukkan
ulasan Anda',
    border:
OutlineInputBorder(),
  ),
  maxLines: 3,
),
  SizedBox(height: 20.0),
  InkWell(
    child: Container(
      width:
MediaQuery.of(context).size.width,
      decoration:
BoxDecoration(
        color:
Colors.amber,
        borderRadius:
BorderRadius.circular(5),
      ),
      child: Padding(
        padding: const
EdgeInsets.all(10),
        child: Center(
          child: Text(
            'Submit',
            style:
TextStyle(
              color:
Colors.white,
              fontSize: 12,
              fontWeight:
FontWeight.w600,
            ),
          ),
        ),
      ),
    ),
    onTap: () {
      _submitRating();
    },
  ),
  Navigator.pop(context);
),
  ],
),
),
),
),
),
);
},
);
  child: Center(
    child: Container(

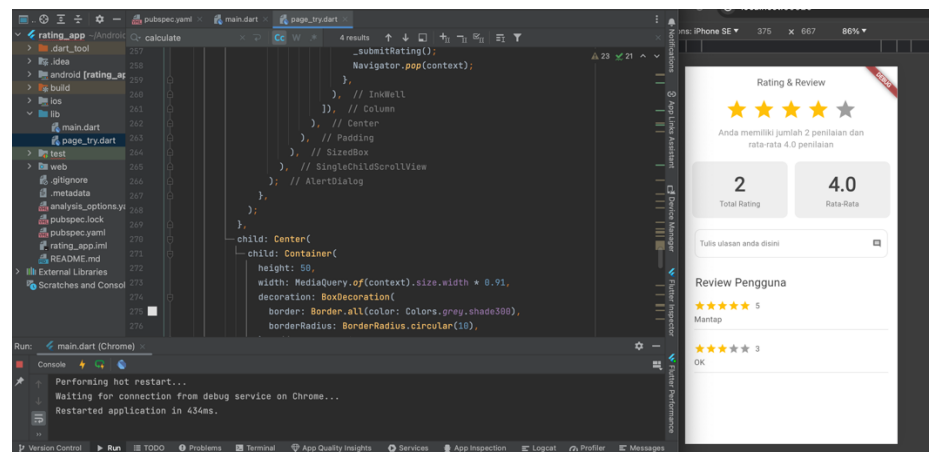
```



```

                                crossAxisAlignment:
CrossAxisAlignment.start,
                                children: [
                                    Row(
                                        children: [
                                            RatingBarIndicator(
                                                rating: _ratings[index],
                                                itemBuilder: (context,
index) => Icon(
                                                    Icons.star,
                                                    color: Colors.amber,
                                                ),
                                            itemCount: 5,
                                            itemSize: 20.0,
                                            direction: Axis.horizontal,
                                        ),
                                        SizedBox(width: 8.0),
                                        Text(
                                            _ratings[index].toString(),
                                            style: TextStyle(
                                                color:
Colors.grey.shade700,
                                                fontSize: 14,
                                                fontWeight:
FontWeight.w500,
                                            ),
                                        ),
                                    ],
                                ),
                                SizedBox(height: 4.0),
                                Text(
                                    _reviews[index],
                                    style: TextStyle(
                                        color: Colors.grey.shade700,
                                        fontSize: 14,
                                    ),
                                ),
                                Divider(color:
Colors.grey.shade300),
                            ],
                        ),
                    ),
                ),
            ),
        ],
    ),
);
}
}

```



c. **Push Code to GitHub** https://github.com/adelianurlinap/Prak_PBM.git

1. Clone Repository yang telah dibuat :

```
git clone https://github.com/adelianurlinap/Prak_PBM.git
```

2. Add dan commit

```
git add .  
git commit -m "Tugas9"
```

3. Push code

```
git push
```

B. Kesimpulan

Pada tugas 10 ini, telah dilakukan praktek untuk membuat rating_app

C. Referensi

modul prak11