

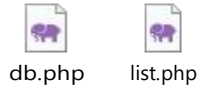
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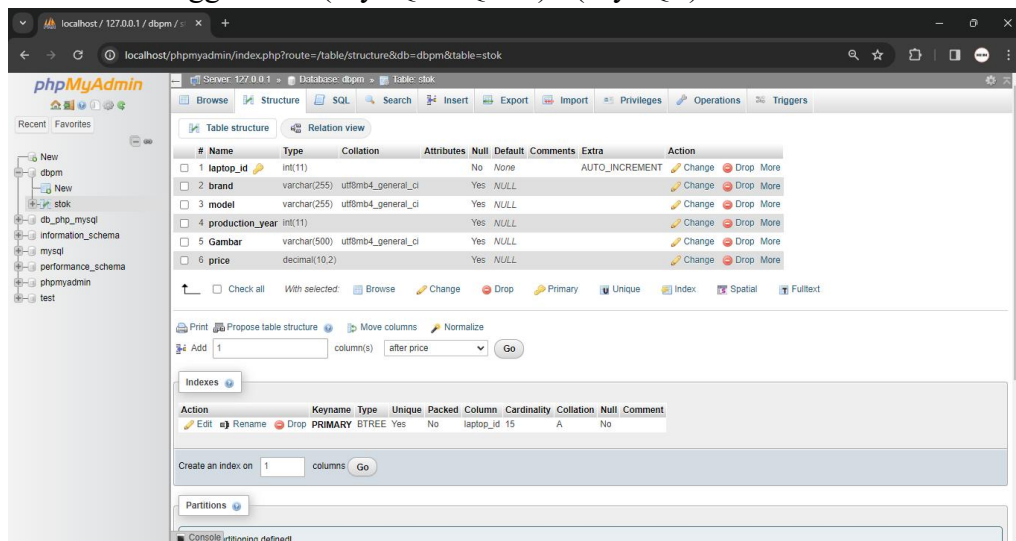
## TUGAS PEMROGRAMAN MOBILE

### 1. Webservice, Database dan Table

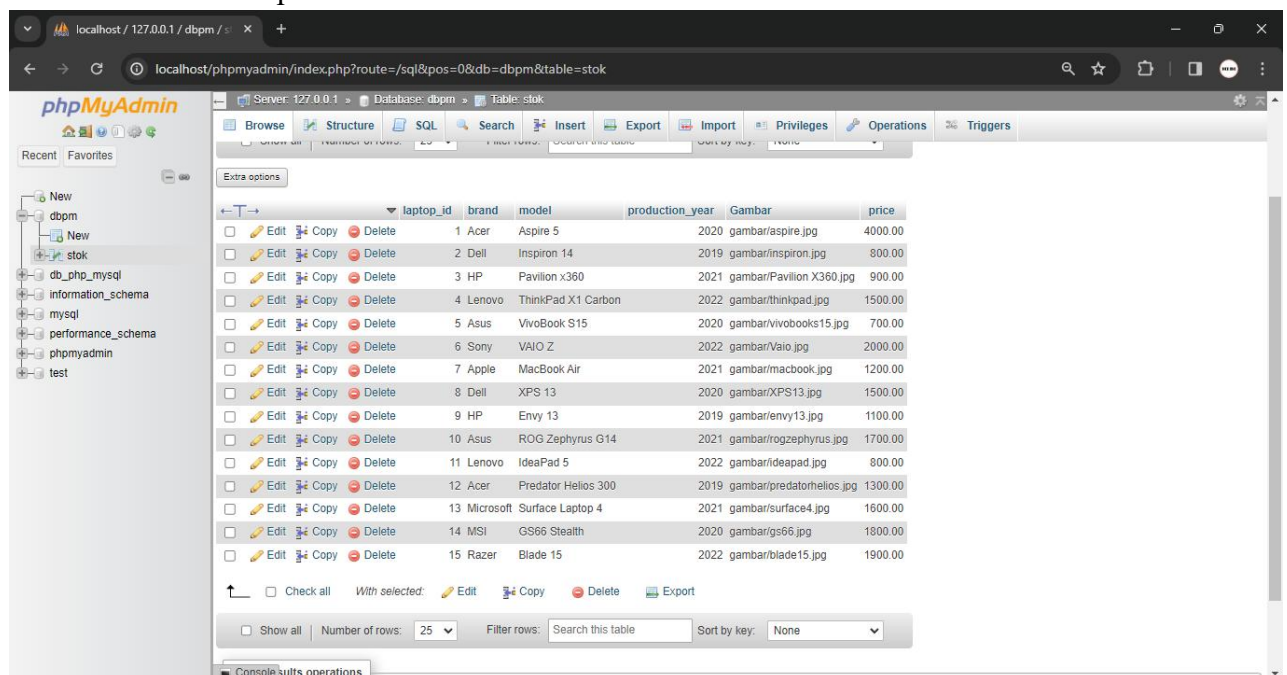
- a. Webservice yang digunakan (Fake atau bangun sendiri) : Bangun sendiri



- b. Database menggunakan (MySQL/SQLite) : (MySQL)



- c. Nama table pada database : stok



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## 2. Isi dari file pada folder lib

### d. main.dart

```
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'model.dart';
import 'service.dart';

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

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

  @override
  State<MyApp> createState() => _MyAppState();
}

class _MyAppState extends State<MyApp> {
  late List<stok> laptops;
  late List<stok> filteredLaptops;

  @override
  void initState() {
    super.initState();
    laptops = [];
    filteredLaptops = [];
    fetchLaptop(http.Client()).then((data) {
      setState(() {
        laptops = data;
      });
    });
  }

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        primarySwatch: Colors.blue,
        fontFamily: 'Roboto',
      ),
      home: Scaffold(
```

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```
appBar: AppBar(  
  title: Text(  
    'My Laptop App',  
    style: TextStyle(fontWeight: FontWeight.bold),  
  ),  
  centerTitle: true,  
  backgroundColor: Colors.white,  
  leading: Icon(Icons.laptop),  
)  
body: Container(  
  decoration: BoxDecoration(  
    gradient: LinearGradient(  
      begin: Alignment.topLeft,  
      end: Alignment.bottomRight,  
      colors: [Colors.blue, Colors.white],  
    ),  
  ),  
  child: Column(  
    children: [  
      Padding(  
        padding: const EdgeInsets.all(8.0),  
        child: TextField(  
          onChanged: (value) {  
            setState(() {  
              filteredLaptops = filterLaptops(value);  
            });  
          },  
          decoration: InputDecoration(  
            labelText: 'Search',  
            hintText: 'Enter laptop model...',  
            prefixIcon: Icon(Icons.search),  
            border: OutlineInputBorder(),  
            focusedBorder: OutlineInputBorder(  
              borderSide: BorderSide(color: Colors.white, width: 2.0),  
              borderRadius: BorderRadius.circular(8.0),  
            ),  
            hintStyle: TextStyle(color: Colors.white),  
          ),  
        ),  
      ),  
      Expanded(  
        child: LaptopList(  
          Laptoplist: filteredLaptops.isNotEmpty
```

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```
        ? filteredLaptops
        : laptops,
    ),
),
],
),
),
),
);
}
```

```
List<stok> filterLaptops(String query) {
    return laptops.where((laptop) {
        final modelLower = laptop.model.toLowerCase();
        final queryLower = query.toLowerCase();
        return modelLower.contains(queryLower);
    }).toList();
}
}
```

```
class LaptopList extends StatelessWidget {
    final List<stok> Laptoplist;
```

```
LaptopList({Key? key, required this.Laptoplist}) : super(key: key);
```

```
@override
Widget build(BuildContext context) {
    return ListView.builder(
        itemCount: Laptoplist.length,
        itemBuilder: (_, index) {
            var data = Laptoplist[index];
            return Card(
                elevation: 8.0,
                margin: EdgeInsets.all(8.0),
                shape: RoundedRectangleBorder(
                    borderRadius: BorderRadius.circular(15.0),
                ),
                child: Container(
                    decoration: BoxDecoration(
                        gradient: LinearGradient(
                            begin: Alignment.topLeft,
                            end: Alignment.bottomRight,
                            colors: [Colors.blueAccent, Colors.blue],
                        ),
                    ),
                ),
            );
        },
    );
}
```

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```
    ),
    borderRadius: BorderRadius.circular(15.0),
  ),
  child: ListTile(
    title: Text(
      data.model,
      style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold, color: Colors.white),
    ),
    subtitle: Text(
      '${data.brand} - ${data.production_year}',
      style: TextStyle(fontSize: 14, color: Colors.white),
    ),
    trailing: Icon(Icons.keyboard_arrow_right, color: Colors.white),
    onTap: () {
      Navigator.push(
        context,
        MaterialPageRoute(
          builder: (context) => DetailScreen(data: data),
        ),
      );
    },
  ),
),
);
},
);
}
```

```
class DetailScreen extends StatelessWidget {
  final stok data;
```

```
  DetailScreen({required this.data});
```

```
  @override
```

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

```
    return Scaffold(
```

```
      appBar: AppBar(
```

```
        title: Text(
```

```
          'Product Details',
```

```
          style: TextStyle(fontWeight: FontWeight.bold),
```

```
        ),
```

```
        backgroundColor: Colors.blue,
```

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```
),
body: Container(
  decoration: BoxDecoration(
    gradient: LinearGradient(
      begin: Alignment.topLeft,
      end: Alignment.bottomRight,
      colors: [Colors.blue, Colors.white],
    ),
  ),
padding: EdgeInsets.all(16.0),
child: ListView(
  children: [
    Card(
      elevation: 5,
      margin: EdgeInsets.all(10),
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(15.0),
      ),
      child: Padding(
        padding: EdgeInsets.all(16.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Text(
              'Model: ${data.model}',
              style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold, color:
Colors.black),
            ),
            SizedBox(height: 16.0),
            Text('Brand: ${data.brand}', style: TextStyle(fontSize: 18, color: Colors.black)),
            Text('Production Year: ${data.production_year.toString()}',
              style: TextStyle(fontSize: 18, color: Colors.black)),
            Text('Price: \${data.price.toString()}',
              style: TextStyle(fontSize: 18, color: Colors.black)),
          ],
        ),
      ),
    Card(
      elevation: 5,
      margin: EdgeInsets.all(10),
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(15.0),
```

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```
),
child: ClipRRect(
  borderRadius: BorderRadius.circular(15.0),
  child: Container(
    height: 200,
    width: double.infinity,
    decoration: BoxDecoration(
      image: DecorationImage(
        image: NetworkImage(
          'http://10.0.2.2/dbpm_api/${data.Gambar}',
        ),
        fit: BoxFit.cover,
      ),
    ),
  ),
),
),
),
),
],
),
),
);
}
}
```



main.dart

#### e. model.dart

```
class stok {
  final String laptop_id;
  final String brand;
  final String model;
  final String production_year;
```

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```
final String Gambar;
```

```
final String price;
```

```
stok(  
  {required this.laptop_id,  
   required this.brand,  
   required this.model,  
   required this.production_year,  
   required this.Gambar,  
   required this.price  
});
```

```
Map<String, dynamic> toJson() => {  
  'laptop_id': laptop_id,  
  'brand': brand,  
  'model': model,  
  'production_year': production_year,  
  'Gambar': Gambar,  
  'price': price  
};
```

```
factory stok.fromJson(Map<String, dynamic> data) => stok(  
  laptop_id: data['laptop_id'].toString(),  
  brand: data['brand'].toString(),  
  model: data['model'].toString(),  
  production_year: data['production_year'].toString(),  
  Gambar: data['Gambar'].toString(),  
  price: data['price'].toString());  
}
```



model.dart

## **f. service.dart**

```
import 'dart:convert';
```

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

```
import 'model.dart';
```



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```
import 'package:http/http.dart' as http;

const url = 'http://10.0.2.2/dbpm_api/';

Future<List<stok>> fetchLaptop(http.Client client) async {
  final response = await client.get(Uri.parse('${url}list.php'));
  //debugPrint(response.body);
  return compute(parseLaptop, response.body);
}

List<stok> parseLaptop(String responseBody){
  final parsed = jsonDecode(responseBody).cast<Map<String, dynamic>>();
  return parsed.map<stok>((json)=>stok.fromJson(json)).toList();
}
```



service.dart

### **g. pubspec.yaml**

```
name: tugaspm
description: "A new Flutter project."
# The following line prevents the package from being accidentally published to
# pub.dev using `flutter pub publish`. This is preferred for private packages.
publish_to: 'none' # Remove this line if you wish to publish to pub.dev

# The following defines the version and build number for your application.
# A version number is three numbers separated by dots, like 1.2.43
# followed by an optional build number separated by a +.
# Both the version and the builder number may be overridden in flutter
# build by specifying --build-name and --build-number, respectively.
# In Android, build-name is used as versionName while build-number used as versionCode.
# Read more about Android versioning at
https://developer.android.com/studio/publish/versioning
# In iOS, build-name is used as CFBundleShortVersionString while build-number is used as
CFBundleVersion.
# Read more about iOS versioning at
#
https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKeyReference/Articles/CoreFoundationKeys.html
# In Windows, build-name is used as the major, minor, and patch parts
# of the product and file versions while build-number is used as the build suffix.
```

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version: 1.0.0+1

environment:

sdk: '>=3.2.4 <4.0.0'

# Dependencies specify other packages that your package needs in order to work.

# To automatically upgrade your package dependencies to the latest versions

# consider running `flutter pub upgrade --major-versions`. Alternatively,

# dependencies can be manually updated by changing the version numbers below to

# the latest version available on pub.dev. To see which dependencies have newer

# versions available, run `flutter pub outdated`.

dependencies:

flutter:

sdk: flutter

http: ^1.1.2

# The following adds the Cupertino Icons font to your application.

# Use with the CupertinoIcons class for iOS style icons.

cupertino\_icons: ^1.0.2

dev\_dependencies:

flutter\_test:

sdk: flutter

# The "flutter\_lints" package below contains a set of recommended lints to

# encourage good coding practices. The lint set provided by the package is

# activated in the `analysis\_options.yaml` file located at the root of your

# package. See that file for information about deactivating specific lint

# rules and activating additional ones.

flutter\_lints: ^2.0.0

# For information on the generic Dart part of this file, see the

# following page: <https://dart.dev/tools/pub/pubspec>

# The following section is specific to Flutter packages.

flutter:

# The following line ensures that the Material Icons font is

# included with your application, so that you can use the icons in

# the material Icons class.

uses-material-design: true

# To add assets to your application, add an assets section, like this:

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# assets:

# - images/a\_dot\_burr.jpeg

# - images/a\_dot\_ham.jpeg

# An image asset can refer to one or more resolution-specific "variants", see

# <https://flutter.dev/assets-and-images/#resolution-aware>

# For details regarding adding assets from package dependencies, see

# <https://flutter.dev/assets-and-images/#from-packages>

# To add custom fonts to your application, add a fonts section here,

# in this "flutter" section. Each entry in this list should have a

# "family" key with the font family name, and a "fonts" key with a

# list giving the asset and other descriptors for the font. For

# example:

# fonts:

# - family: Schyler

# fonts:

# - asset: fonts/Schyler-Regular.ttf

# - asset: fonts/Schyler-Italic.ttf

# style: italic

# - family: Trajan Pro

# fonts:

# - asset: fonts/TrajanPro.ttf

# - asset: fonts/TrajanPro\_Bold.ttf

# weight: 700

#

# For details regarding fonts from package dependencies,

# see <https://flutter.dev/custom-fonts/#from-packages>

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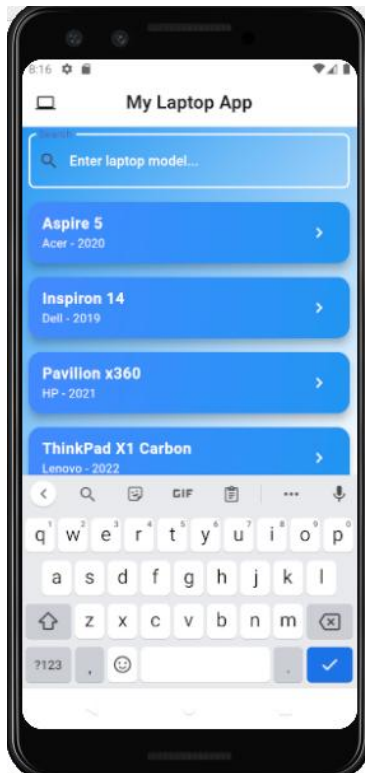
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### 3. Ouput dari aplikasi

#### a. Gambar 1



#### b. Gambar 2



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a. Gambar 3



4. Link channel Youtube berisi penjelasan dan penggunaan aplikasi

Link : <https://youtu.be/tdwZkYoIKp0?si=F4TzTMyKRi1sYtM3>

Catatan:

- *Mohon masing-masing mahasiswa/i mengikuti template ini.*
- *Jika anda tidak mengikuti format template ini, maka akan menyulitkan proses penilaian dan akan mengurangi penilaian anda.*