Modul Flutter Rest Api Aplikasi Jadwal Pelajaran PHP & MySQL



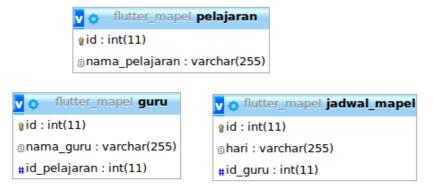
Muhammad Isa Goutama XII-RPL Sebelum mengikuti tutorial ini, silahkan menginstal hal-hal yang diperlukan :

- SDK Flutter
- Dart
- Text Editor Visual Studio Code atau IDE Android Studio

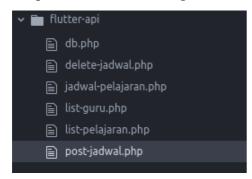
Tutorial ada di official website Flutter(flutter.io)

Membuat API Menggunakan PHP dengan database Mysql

• Buat database dan table dengan susunan seperti berikut :



• Siapkan file-file PHP dengan susunan



Masukkan Kode PHP untuk koneksi ke database di file db.php

list-pelajaran.php

```
require_once 'db.php';
$query = $db->prepare("SELECT * FROM pelajaran");
if ($query->execute()) {
    $data = $query->fetchAll(PDO::FETCH_OBJ);
    $response = $data;
}
header('Content-Type: application/json');
echo json_encode($response);

?>
```

list-guru.php

• jadwal-pelajaran.php

post-jadwal.php

```
<?php
require_once 'db.php';

$id_guru = $_POST['id_guru'];
$hari = $_POST['hari'];

$query = $db->prepare("INSERT INTO jadwal_mapel(hari, id_guru) VALUES('$hari','$id_guru')");

$query->execute();

?>
```

delete-jadwal.php

```
<?php
require_once 'db.php';

$id = $_GET['id'];

$query = $db->prepare("DELETE FROM jadwal_mapel WHERE id = $id");

$query->execute();

?>
```

Membuat Aplikasi Mobile menggunakan Flutter

• Buat File-file berikut

```
ib

i add_jadwal.dart

guru.dart

jadwal.dart

main.dart

pelajaran.dart
```

main.dart

```
e:pelajaran/guru.dart'
                ackage:pelajaran/guru.dart ;
ackage:pelajaran/jadwal.dart';
ackage:pelajaran/pelajaran.dar
                       ge:pelajaran/pelajaran.dart';
void main() {
  runApp(new MaterialApp(
    title: "Jadwal Saya",
    home: new Home(),
,
class HomeState extends State<Home> {
   List<String> hari = ["Senin","Selasa","Rabu","Kamis", "Jumat","Data Mata Pelajaran","Data Guru"];
      return new Scaffold(
  appBar: new AppBar(title: new Text("Hari"),),
             itemCount: hari.length,
itemBuilder: (context,i){
                if(hari[i] == "Data Mata Pelajaran"){
    return new ListTile(
                              leading: new Icon(Icons.desktop_windows),
title: new Text("${hari[i]}"),
                                    Navigator.push(
context,
                                 leading: new Icon(Icons.contacts),
title: new Text("${hari[i]}"),
                                          Navigator.push(
context,
```

jadwal.dart

```
:flutter/material.dart'
import 'package:pelajaran/add_jadwal.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
class Jadwal extends StatefulWidget {
class _JadwalState extends State<Jadwal> {
  final String dayChoose;
  Future<String> getJadwal() async {
      Uri.encodeFull("http://192.168.43.140/flutter-api/jadwal-pelajaran.php?hari="+dayChoose),
      headers: {"Accept" : "application/json"}
    var url = "http://192.168.43.140/flutter-api/delete-jadwal.php?id="+id;
   Widget build(BuildContext context) {
    return new Scaffold(
      appBar: new AppBar(title: new Text("Jadwal Pelajaran"),),
body: ListView.builder(
               children: <Widget>[
```

add_jadwal.dart

```
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
import 'package:pelajaran/jadwal.dart';
class AddJadwal extends StatefulWidget {
  AddJadwal({this.addhari});
final String addhari;
   @override
   _AddJadwalState createState() => _AddJadwalState(sethari: addhari);
class _AddJadwalState extends State<AddJadwal> {
  final String sethari;
   String _guru;
   Future<String> getGuru() async {
     http.Response resultGuru = await http.get(
    Uri.encodeFull("http://192.168.43.140/flutter-api/list-quru.php"),
    headers: {"Accept" : "application/json"}
   @override
     void initState() {
       var uri = "http://192.168.43.140/flutter-api/post-jadwal.php";
http.post(uri, body: {
          "id_guru": _guru,
          "hari": sethari,
```

```
var uri = "http://192.168.43.140/flutter-api/post-jadwal.php";
         http.post(uri, body: {
    "id_guru": _guru,
    "hari": sethari,
    @override
    Widget build(BuildContext context) {
         appBar: new AppBar(title: new Text("Add Jadwal"),),
body: new ListView(
children: <Widget>[
               new Container(
padding: EdgeInsets.all(10.0),
                  child: new DropdownButton(
   items: guruJson.map((item){
    return new DropdownMenuItem(
                          child: new Text(item['nama_guru']),
value: item['id'],
                      }).toList(),
onChanged: (newVal){
                  child: new Center(
child: new RaisedButton(
                        child: new Text("Submit"),
onPressed: (){
```

• pelajaran.dart

```
import '<mark>package</mark>:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
class Pelajaran extends StatefulWidget {
  @override
class _PelajaranState extends State<Pelajaran> {
  Future<String> getPelajaran() async {
      Uri.encodeFull("http://192.168.43.140/flutter-api/list-pelajaran.php"),
      headers: {"Accept" : "application/json"}
      pelajaranJson = jsonDecode(resultPelajaran.body);
  @override
  @override
  Widget build(BuildContext context) {
      appBar: new AppBar(title: new Text("Mata Pelajaran"),),
      body: new ListView.builder(
        itemBuilder: (context,i){
             title: new Text("${pelajaranJson[i]['nama_pelajaran']}"),
```

• guru.dart

```
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
class Guru extends StatefulWidget {
  @override
class _GuruState extends State<Guru> {
  Future<String> getGuru() async {
      Uri.encodeFull("http://192.168.43.140/flutter-api/list-quru.php"),
      headers: {"Accept" : "application/json"}
      guruJson = jsonDecode(resultGuru.body);
  @override
        ' TODO: implement initState
      this.getGuru();
  @override
  Widget build(BuildContext context) {
      appBar: new AppBar(title: new Text("Guru"),),
      body: new ListView.builder(
        itemBuilder: (context,i){
            title: new Text("${guruJson[i]['nama_guru']}"),
            subtitle: new Text("${guruJson[i]['nama_pelajaran']}"),
```

jangan lupa untuk menambahkan dependencies di pubspec.yaml

```
dependencies:
   flutter:
     sdk: flutter

# The following adds the Cupe
# Use with the CupertinoIcons
cupertino_icons: ^0.1.2
http: ^0.11.3+16
```

Menjalankan aplikasi

- untuk menjalankan aplikasi silahkan masuk ke directory menggunakan perintah berikut : cd [__Directory Project__]
- dan jalankan project dengan perintah flutter run