PEMROGRAMAN MOBILE

"Cupertino & REST API"



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• Install Cupertino pada pubspec.yaml

```
dependencies:

flutter:

sdk: flutter

http: ^0.13.3

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

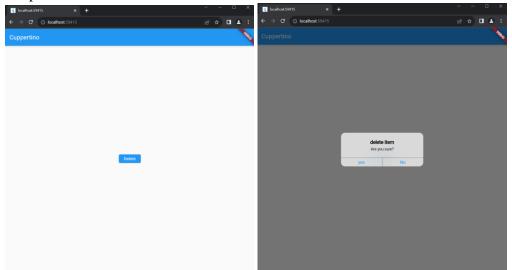
# Use with the CupertinoIcons class for iOS style icons.

cupertino_icons: ^1.0.2
```

• Kode ini memunculkan tombol delete yang menampilkan diaglog style Cupertino ketika di tekan

```
void main() {
  runApp(MyApp());
}
class MyApp extends StatelessWidget {
  @override
Widget build(BuildContext context) {
   return MaterialApp(
class Homepage extends StatelessWidget {
 @override
Widget build(BuildContext context) {
     appBar: AppBar(
    title: Text("Cuppertino"),
     body: Center(
child: ElevatedButton(
onPressed: () {
showDialog(
         onPressed: () {},
child: Text("yes"),
                         onPressed: () {},
child: Text("No"),
```

• Output



 Kode ini untuk mengambil data dari API menggunakan HTTP GET request dan mengelola responsnya.

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

class MahasiswaService {
   static final String _baseUrl = "https://regres.in/api/unknown/2";

var http;

Future getMahasiswa() async{
   Uri urlApi =Uri.parse(_baseUrl);

final response = await http.get(urlApi);
   if (response.statusCode == 200){
      return mahsiswaFromJson(response.body.toString());
   }else{
      throw Exception('Failed to load data mahasiswa');
   }

}

}
```

• Kode ini untuk implementasi konversi antara objek Dart dan representasi JSON-nya menggunakan metode serialization dan deserialization.

```
. .
      Mahsiswa mahsiswaFromJson(String str) => Mahsiswa.fromJson(json.decode(str));
      String mahsiswaToJson(Mahsiswa data) => json.encode(data.toJson());
     class Mahsiswa {
           required this.data,
required this.support,
        factory Mahsiswa.fromJson(Map<String, dynamic> json) => Mahsiswa(
    data: Data.fromJson(json["data"]),
        Map<String, dynamic> toJson() => {
    "data": data.toJson(),
    "support": support.toJson(),
       int year;
String color;
           required this.name, required this.year,
         factory Data.fromJson(Map<String, dynamic> json) => Data(
                 year: json["year"],
color: json["color"],
        Map<String, dynamic> toJson() => {
    "id": id,
    "name": name,
    "year": year,
    "color": color,
    "pantone_value": pantoneValue,
       String url;
String text;
           required this.url,
required this.text,
         factory Support.fromJson(Map<String, dynamic> json) => Support(
                 url: json["url"],
text: json["text"],
         Map<String, dynamic> toJson() => {
    "url": url,
    "text": text,
```

```
3 import 'package:flutter/material.dart';
5 import './servis/mahasiswaServis.dart';
8 runApp(MyApp());
11 class MyApp extends StatelessWidget {
    @override
   Widget build(BuildContext context) {
     return MaterialApp(
       title: "Rest API",
home: MyHomePage(),
21 class MyHomePage extends StatefulWidget {
     _MyHomePageState createState() => _MyHomePageState();
26 class _MyHomePageState extends State<MyHomePage> {
    late Future data;
    List<Mahsiswa> data2 = [];
     Widget build(BuildContext context) {
      return Scaffold(
          appBar: AppBar(
           body: data2.length == 0
              ? const Center(
                  child: CircularProgressIndicator(
                     backgroundColor: Colors.red,
               : ListView.builder(
                  itemCount: data2.length,
                       title: Text(data2[index].toString()),
```

• Output

