MAD Lab 10 Essam Mohammad Asif 199379 BSCS 7A

Main.dart:

import 'package:flutter/material.dart';  
import 'package:lab10\_essam199379/apiService.dart';  
import 'package:lab10\_essam199379/models/labmodel.dart';  
  
void main() {  
 runApp(MyApp());  
}  
  
class MyApp extends StatelessWidget {  
 @override  
 Widget build(BuildContext context) {  
 return MaterialApp(  
 debugShowCheckedModeBanner: false,  
 title: 'Flutter Demo',  
 theme: ThemeData(  
 primarySwatch: Colors.*blue*,  
 ),  
 home: MyHomePage(),  
 );  
 }  
}  
  
class MyHomePage extends StatefulWidget {  
 @override  
 \_MyHomePageState createState() => \_MyHomePageState();  
}  
  
class \_MyHomePageState extends State<MyHomePage> {  
 @override  
 Widget build(BuildContext context) {  
 return Scaffold(  
 appBar: AppBar(  
 title: Text("Essam Asif 199379 BSCS 7A"),  
 ),  
 body: Center(  
 child:FutureBuilder<List<myModel>>(  
 future: fetchData(),  
 builder: (context, snapshot) {  
 if (snapshot.hasData) {  
 return ListView.separated(itemBuilder: (context, index){  
 return Card(  
 child: ListTile(  
 title: Text("ID :" + snapshot.data[index].id.toString()),  
 subtitle: Text("Title: " + snapshot.data[index].title),  
  
 ),  
 );  
 }, separatorBuilder: (context, index){return SizedBox(height: 10,);}, itemCount: snapshot.data.length);  
 } else if (snapshot.hasError) {  
 return AlertDialog(  
 title: Text("Something went wrong"),  
 content: Text(snapshot.error.toString()),  
 actions: [  
 RaisedButton(child: Text("Retry"),  
 onPressed: () {  
 Navigator.*push*(  
 context,  
 MaterialPageRoute(builder: (context) => MyHomePage()),  
 );  
 }  
 )  
 ],  
  
 );  
 }  
  
 // By default, show a loading spinner.  
 return CircularProgressIndicator();  
 },  
 )  
 ), // This trailing comma makes auto-formatting nicer for build methods.  
 );  
 }  
}

Model:

class myModel{  
 int userID = 0;  
 int id = 0;  
 String title = "";  
 bool completed = false;  
  
 myModel(  
 this.userID,  
 this.id,  
 this.title,  
 this.completed  
);  
  
myModel.fromJson(Map<String, dynamic> json){  
 userID = json['userID'];  
 id = json['id'];  
 title = json['title'];  
 completed = json["completed"];  
}  
  
}

API:

import 'dart:convert';  
import 'package:flutter/material.dart';  
import 'package:http/http.dart' as http;  
import 'models/labmodel.dart';  
  
Future <List<myModel>> fetchData() async {  
 final response =  
 await http.get(Uri.*parse*('https://jsonplaceholder.typicode.com/todos'));  
 if (response.statusCode == 200) {  
 // If the server did return a 200 OK response,  
 // then parse the JSON.  
 List<myModel> fetchedList = [];  
 json.decode(response.body).forEach((listItem){fetchedList.add(myModel.fromJson(listItem));});  
 return fetchedList;  
 } else {  
 // If the server did not return a 200 OK response,  
 // then throw an exception.  
 throw Exception('Failed to load album');  
 }  
}

Output when error:   
Graphical user interface, application

Description automatically generated

Output When no error

Graphical user interface, application

Description automatically generated