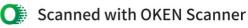


# **FACULTY OF ENGINEERING AND TECHNOLOGY**

Department of Computer Engineering 01CE0610 - APP DEVLOPMENT USING FLUTTER

# practical 11: Create and application Connecting REST API in Flutter. code:

```
import 'package:flutter/material.dart';
 import 'package:resetapi/data_screen.dart';
 void main() { runApp(MyApp()); } class
 MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) { return
 MaterialApp(
 debugShowCheckedModeBanner: false,
 title: 'Flutter REST API Demo', theme:
 ThemeData( primarySwatch:
 Colors.blue, ), home: DataScreen(), ); }
 } api_service.dart:
import 'dart:convert'; import
 'package:http/http.dart' as http; class
Post { final int userId; final int id; final
String title; final String body; Post({
required this.userId, required this.id, required this.title, required this.body, });
factory Post.fromJson(Map<String, dynamic> json) { return Post(
userId: json['userId'], id: json['id'], title: json['title'], body:
json['body'],); } }
class ApiService {
static const String baseUrl = 'https://jsonplaceholder.typicode.com/todos/1'; static
Future<List<Post>> fetchPosts() async {
final response = await http.get(Uri.parse('$baseUrl/posts'));
if (response.statusCode == 200) {
List<dynamic> jsonResponse = json.decode(response.body); return jsonResponse.map((post) =>
Post.fromJson(post)).toList(); } else { throw Exception('Failed to load posts'); } } }
data_screen.dart:
import 'package:flutter/material.dart'; import
'package:resetapi/api_service.dart'; class
DataScreen extends StatefulWidget {
@override ~
class _DataScreenState extends State<DataScreen> { late
Future<List<Post>> posts;
@override
void initState() { super.initState();
posts = ApiService.fetchPosts(); }
@override
```



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Widget build(BuildContext context) { return Scaffold( appBar: AppBar( title: Text('Posts'), ), Widge: Center(child: FutureBuilder<List<Post>>( future: posts, builder: (context, snapshot) ( if (snapshot.hasData) { return ListView.builder( itemCount: snapshot.data!.length, itemBuilder: (context, index) { return Card( elevation: 3, margin: Edgelnsets.all(10), child: Padding( padding: EdgeInsets.all(10), child: Column( crossAxisAlignment: CrossAxisAlignment.start, children: [ Text( 'Post \${index + 1}:', // Add label here style: TextStyle( fontWeight: FontWeight.bold, fontSize: 16, ), ), SizedBox(height: 5), Text( snapshot.data![index].title, style: TextStyle( fontWeight: FontWeight.bold, fontSize: 18, ), ), SizedBox(height: 5), Text(snapshot.data![index].body), ], ), ), ), ), } else if (snapshot.hasError) { return Text("\${snapshot.error}"); } }, ), ), ); }}

## Output:

#### Posts

#### Post 10:

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#### Post 11;

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#### Post 12:

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#### Post 13:

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#### fuga nam accusamus voluptas reiciendis itaque

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#### Post 37:

#### provident vel ut sit ratione est

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#### Post 38:

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#### Post 39;

### eos dolorem Iste accusantium est eaque quam

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