

FACULTY OF ENGINEERING AND TECHNOLOGY

Department of Computer Engineering 01CE0610 - APP DEVLOPMENT USING FLUTTER

Practical 12: Create and application Parsing JSON data from 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 Material App (debug Show Checked Mode Banner: false.
 title: 'Flutter REST API Demo', theme: ThemeData(
 primarySwatch: Colors.blue, ),
home: DataScreen(), ); } }
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(
userld: json['userld'], id: json['id'], title: json['title'], body:
ison['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'); } }}
import 'package:flutter/material.dart'; import
'package:resetapi/api_service_dart'; class DataScreen
extends StatefulWidget @override _DataScreenState
createState() => _DataScreenState(); } class
 Future<List<Post>> posts;
@override
void initState() { super.initState(); posts
= ApiService.fetchPosts(); }
@override
Widget build(BuildContext context) { return
Scaffold(
```

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appBar: AppBar(title: Text('Posts'),),

body: Center(

child: FutureBuilder<List<Post>>(future: posts,

builder: (context, snapshot) { if (snapshot.hasData) { return ListView.builder(

itemCount: snapshot.datal.length, itemBuilder: (context, index) { return

Card(elevation: 3,

margin: EdgeInsets.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:

optio molestias id quia eum

quo et expedita modi cum officia vel magni doloribus qui repudiandae

quos veniam quod sed accusamus ventatis exor

Post 11:

et ea vero quia laudantium autem

delectus reiclendis molestiae occaecati non minima eveniel qui voluptatibus

accusamus in eum beatae sit

vel qui neque voluplates ut commodi qui incidunt

ut animi commodi

Post 12:

in quibusdam tempore odit est dolorem

staque ld aut magnam

praesentium qui rel ea odit et ea voluptas et saplente quindifull amet occaecati quia id voluptatem

incidunt ea est distinctio odio

Post 13:

dolorum ut in voluptas mollitia et saepe quo animi

aut dicta possimus sint mollitia voluptas commodi quo doloremque

Posts

Post 36:

fuga nam accusamus voluptas reiclendis itaque

ad mollitla et omnis minus architecto odit voluptas doloremque maxime aut non lusa qui alias veniam blanditiis culpa aut quia nihil cumque facere et occaecati qui aspernatur quia eaque ut aperiam inventore

Post 37:

provident vel ut sit ratione est

debitis et eaque non officia sed nesciunt parlatur vel voluptatem Iste vero et ea numquam aut expedita ipsum nulla in voluptates omnis consequatur aut enkn officiës in quam qui

Post 38:

explicabo et eos deleniti nostrum ab id repellendus

animi esse sit aut ali nesciunt assumenda euro voluptas quia voluptatibus provident quia necessitatibus ga retum repudiandae quia voluptatem delectus fugit aut id quia ratione optio eos justo veniam jure

Post 39:

eos dolorem iste accusantium est eaque quam

corporis rerum ducimus vel eum accusantium