

Angular HTTP Client Practice

This repository contains **practice examples of Angular HTTP Client** for handling API communication.

It demonstrates how to perform **CRUD operations**, handle **errors**, and work with **real-world REST APIs** using Angular.

What This Repository Covers

- ✓ HTTP GET, POST, PUT, DELETE
 - ✓ REST API integration
 - ✓ Observables & RxJS
 - ✓ Error handling
 - ✓ HTTP Headers & Params
 - ✓ Services & Best Practices
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What is Angular HTTP Client?

Angular provides the **HttpClient module** to communicate with backend services using HTTP protocols.

It helps in:

- Fetching data from APIs
 - Sending data to servers
 - Updating & deleting records
 - Handling async data with Observables
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Features Implemented

GET Request

- Fetch data from API
- Display data in UI
- Handle loading states

POST Request

- Send form data to backend
- Create new records

PUT / PATCH Request

- Update existing records
- Partial and full updates

DELETE Request

- Remove records from server
- Confirm before deletion

Technologies Used

- Angular
- TypeScript
- RxJS
- REST API
- HTML5 & CSS3
- Bootstrap (optional)

Angular Modules Used

```
import { HttpClientModule } from '@angular/common/http';

@NgModule({
  imports: [
    HttpClientModule
  ]
})

export class AppModule {}
```

Error Handling

- ✓ Network error handling
- ✓ Server error responses
- ✓ User-friendly error messages
- ✓ catchError with RxJS

Sample HTTP Service Structure

src/

└─ app/

| └─ services/

| | └─ api.service.ts

| └─ components/

| | └─ user.component.ts

| └─ app.module.ts

How to Run This Project

- 1 Clone the repository

git clone <https://github.com/your-username/angular-http-practice.git>

- 2 Navigate to the project folder

cd angular-http-practice

- 3 Install dependencies

npm install

- 4 Start the development server

ng serve

- 5 Open browser

http://localhost:4200

Learning Objectives

- Understand Angular HTTP Client
 - Learn REST API integration
 - Work with Observables and RxJS
 - Implement clean service-based architecture
 - Prepare for Angular interviews
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Future Enhancements

- Add Interceptors
 - Add Authentication (JWT)
 - Add Loader & Spinner
 - Pagination & Search
 - Angular Material UI
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Contributions

Contributions are welcome!



Feel free to fork this repository and submit pull requests 😊

License

This project is licensed under the **MIT License**.

If you want, I can also:

-  Add **mock API (JSON Server)** section
-  Make it **interview-question oriented**

-  Customize it with **your name & profile**
-  Add **Auth + Interceptor README**