Angular Training
(Intermediate to Advanced)

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Schedule for React JS Training

Day1   : Custom Pipes in Angular

Day2   : Parent-Child Communication

Day3   : Custom Directives in Angular

Day4   : Working with Reactive Forms

Day5   : Dependency Injection and Services in Angular

Day6   : RxJS Library – Observables

Day7   : Http Client – Server calls in Angular

Day8   : Routing and Security in Angular

Day7
Http Client – Server calls in Angular

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Index – Day7

- What is HttpClient?
- How to register it?
- Performing CRUD operations (use json-server as backend)
- GET, POST, PUT, DELETE
- Angular Service for HttpClient calls
- Handling Request Errors
- Configuring HTTP URL parameters
- Showing how to add a 404 Page

Server Communication Using HTTP Client

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Server Communication

- Most front-end applications need to communicate with a server over the HTTP protocol, to send or receive data and access other back-end services.

- Angular provides a client HTTP API for Angular applications, the HttpClient service class in @angular/common/http.

Need to involve

- AJAX
- JSON
- XmlHttpRequest / Fetch / $.ajax() / axios / HttpClient
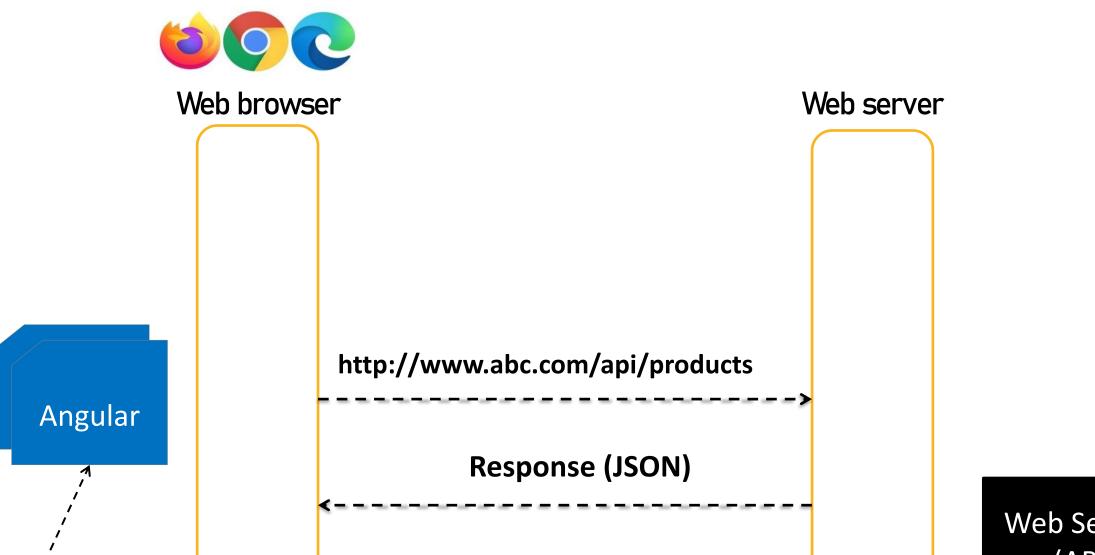- Server Side Code : Web API
- JSON Server

Configure HttpClient

- Angular provides a client HTTP API for Angular applications, the **HttpClient service class** in @angular/common/http.

- Before you can use HttpClient, you need to import the Angular HttpClientModule

- You can then inject the HttpClient service as a dependency of an application class

Understanding Http Calls

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Web browser

Web server

Angular

http://www.abc.com/api/products

Response (JSON)

Web Service (API)

DB

Performing CRUD operations

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CRUD Opeations

- GET :   this.httpObj.get(url)

- POST : this.httpObj.post(url, obj)

- PUT :   this.httpObj.put(url, obj)
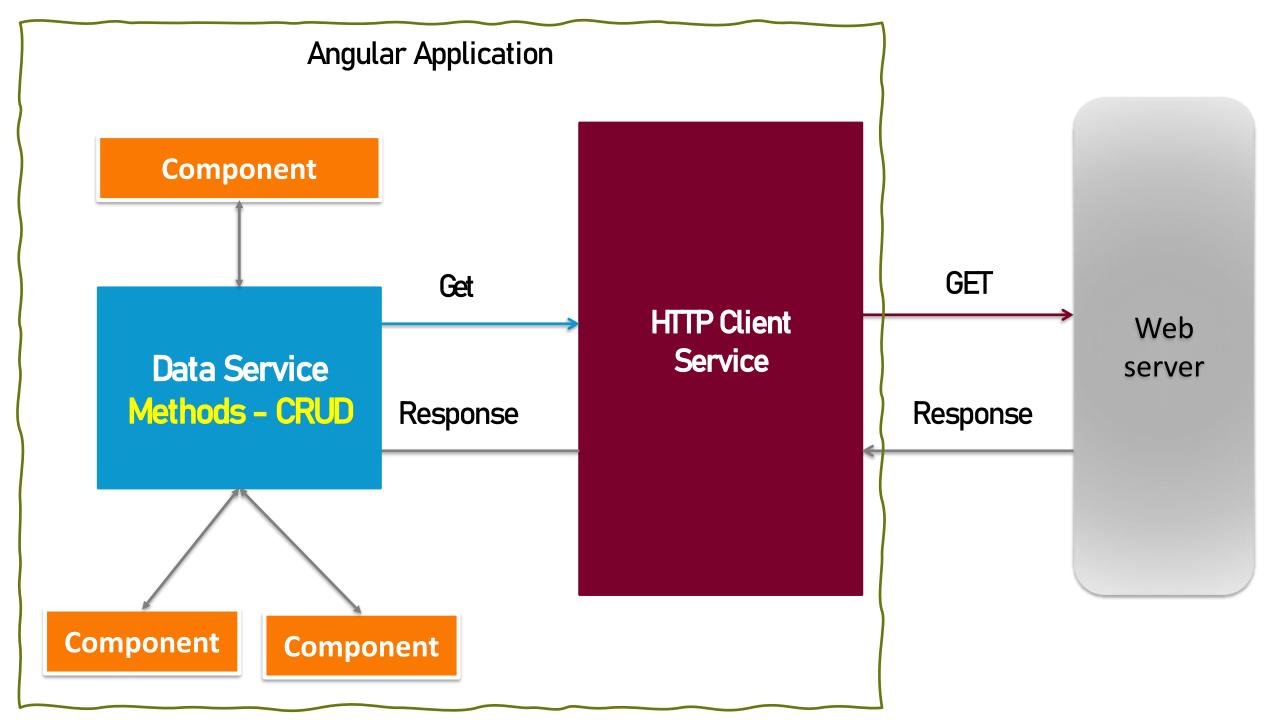
- DELETE : this.httpObj.delete(url)

CRUD Opeations

1. **Read All** - **get(url)** - **/depts**
2. **Read Single** - **get(url)** - **/depts/20**
3. **Create** - **post(url, obj)** - **/depts**
4. **Update** - **put(url, obj)** - **/depts/20**
5. **Delete** - **delete(url)** - **/depts/20**

Perform AJAX Operations using Angular Services

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Angular Application

Component

Data Service
Methods – CRUD

Component   Component

Get

Response

HTTP Client
Service

GET

Response

Web
server

Assignment

Perform CRUD operations with remote data in Angular

Employee Name	Job

0	0

Get Employees	Add Employee	Update Employee	Clear Fields

Employee No	Employee Name	Job	Salary	Dept No	
6589	SRIRAM	MANAGER	3200	32	Select | Delete
6369	SMITH	CLERK	800	20	Select | Delete
6499	ALLEN	SALESMAN	1600	30	Select | Delete
6521	WARD	ANALYST	1250	30	Select | Delete
6566	JONES	MANAGER	2975	20	Select | Delete
7654	MARTIN	SALESMAN	1250	30	Select | Delete
7698	BLAKE	MANAGER	2850	30	Select | Delete
7782	CLARK	MANAGER	2450	10	Select | Delete

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