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

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



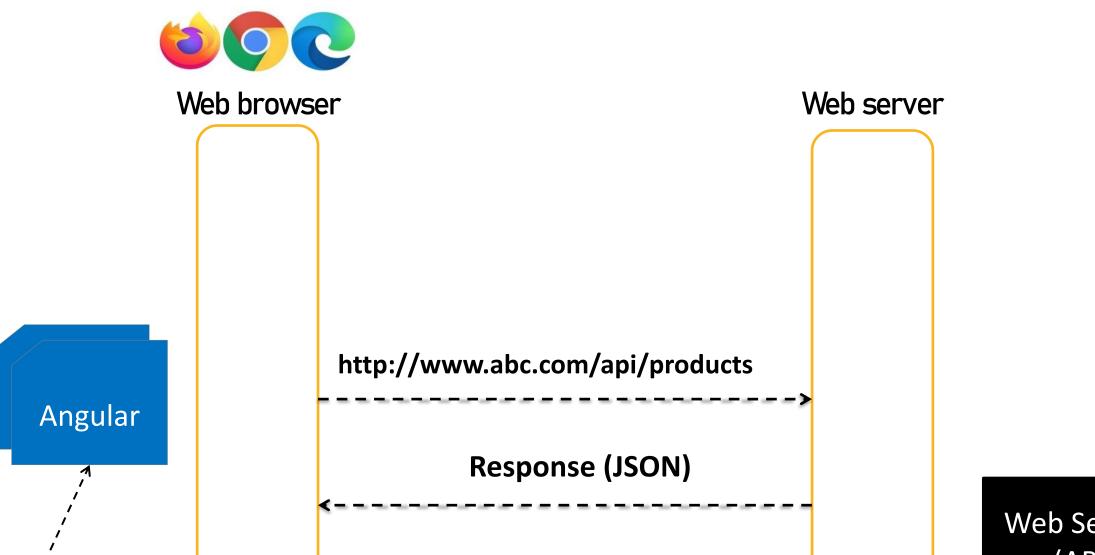
Configure HttpClient

- 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 Service (API)



Performing CRUD operations

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

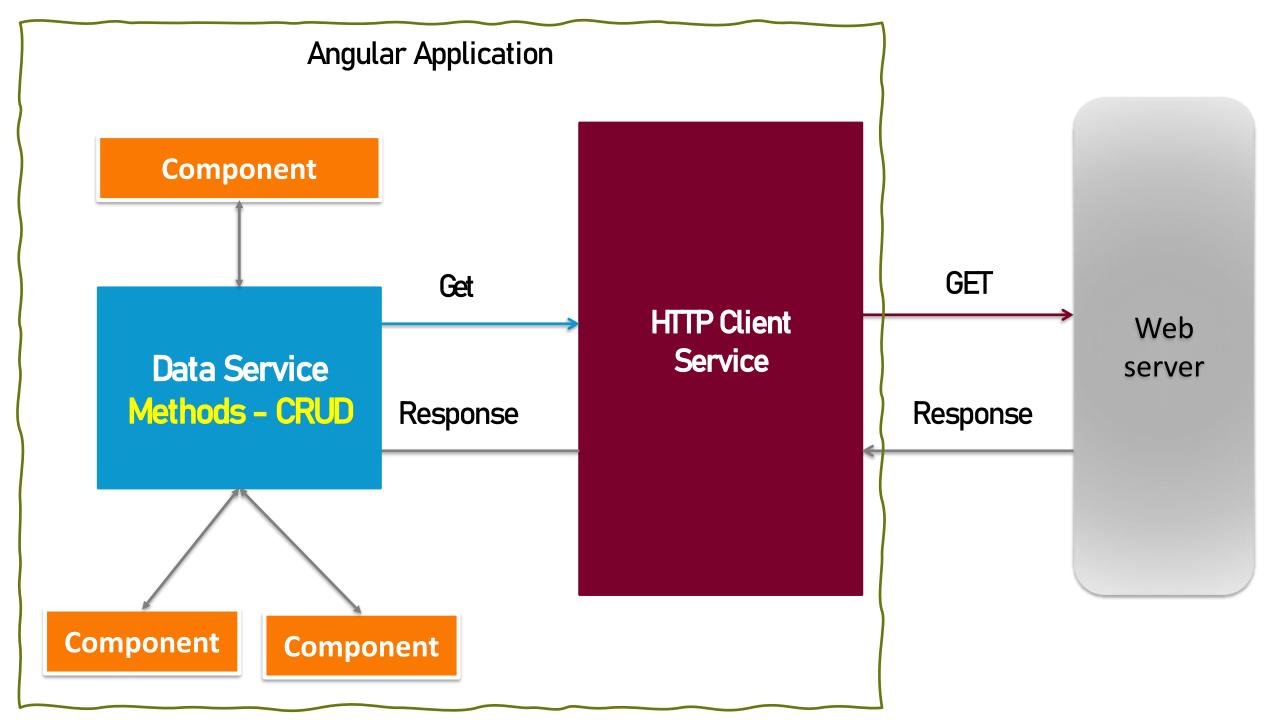
```
Read All
                      get(url)
                                             /depts
                      get(url)
                                             /depts/20
    Read Single -
2.
                                             /depts
                      post(url, obj)
3.
    Create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



Configure JSON-Server

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Perform AJAX Operations using Angular Services



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

Practical HandsOns



