

Complete Notes: <https://github.com/sanjaysaravanan/FSD-WE-T-B7-2024-08-18>

Expectations:

1. Do Not Hesitate to ask Doubts
2. Interaction - Answer all the questions that the Mentor asks
3. Revise the previous day topics
4. Give feedback about the going session (Speed, Contents, Examples)
5. Listen carefully to all the points

Topics:

Full-Stack Development:

End-To-End Development of an application
Developing all the Parts: Front-End, Backend, DB

Front-End:

Client/Users Browser (Chrome, Firefox, Opera, Safari etc.,)

Backend:

Client interacts with backend to get the essential information
Backend will get the data/information from Database

Database:

Stores all the data needed for the end user.

Eg: Social Media App

User Details

Posts

Comments

All the above data will be stored in Database

Language: JavaScript

Browsers:

Internet - What is Internet ?

HTTP -> Hyper Text Transfer Protocol is used transfer data/information over network.

Primarily used Internet(Global Network) - Using HTTP browser connects to internet

Global Network which can be accessed with the help of ISP(Internet Service Provider) like ACT, Hathway, JioFiber

Connects to the internet and serves HTML, JS, CSS, JSON data

Introduction to World Wide Web www

working of internet with HTTP/HTTPS

DNS - Domain Name System (Maps all the domains with an IP Address)

Facebook.com <-> 198.12.31.52

Evolution Of Browsers

Mosaic

Natscap, Internet Explorer

Chrome, Mozilla, Edge

http1.1 vs http2:

reference --> [https://developer.mozilla.org/en-](https://developer.mozilla.org/en-US/docs/Web/HTTP/Basics_of_HTTP/Evolution_of_HTTP#invention_of_the_world_wide_web)

[US/docs/Web/HTTP/Basics_of_HTTP/Evolution_of_HTTP#invention_of_the_world_wide_web](https://developer.mozilla.org/en-US/docs/Web/HTTP/Basics_of_HTTP/Evolution_of_HTTP#invention_of_the_world_wide_web)

http / https:

http is a public network, data transferred from client <-> server was not secure

https: data transferred is on a secured network with encryption SSL

http status, response codes to understand connection/communication

1xx - info

2xx - Success

3xx - Redirection / Unchanged / Not Modified

4xx - Client Error / Client requested for something which is wrong

5xx - Server Error / server has some problem, or not responding

IP Address, MAC Address

IP: Logical - Internet Protocol Address is used to identify network in internet(WWW/Golbal Public Network)

MAC: Physical Address - Media Access Control Address -> local addresses to identify/access media on a local network

Rendering ---> Convert HTML code to Beatiful webpage

Hyper Text Mark Up Language

HTML Rendering Process Or DOM:

DOM --> Document Object Model

Skeleton Of Webpage

1. Browser Fetchs the HTML Document

2. Parses it via

DOM Tree --> which is used to rendering

3. CSS -> Written Inside/outside HTML

CCSSOM Tree --> which is used to painting or format the HTML rendered

CSS: Presentation/Skin/Makeup ---> Beautification

JavaScript:

functional Brain of HTML --> Client Side(Page User will see)scripting / functional script

BrowserJs vs Nodejs

V8 Engine invented by Google Chrome, Initially it was only used inside Browser - Front-End Language

NodeJs:

Later, a Developer used the same codes in V8 and created NodeJS, which made the JS to used like other backend languages Python, Java, C, C++

Task:

Visit the website You usually use using browser, inspect and check the network requests/calls

You can use any browser.

Revision of Today's Topics