① Rajneesh Kumar @ SDE2 Google

② IC → disputed pod (card. (USA, EU)
↓
2 Eng (one is me, TL)

③ 2020 (2019 - 2022, start up)

① treat me as your friend.
② Ask questions.
③ try to revise class content + Explore something new

④ question in your mind → (google it, chat gpt + ask me)

(*) Agenda

① Syllabus of full stack module

② How we works

③ Demo of webpage

④ HTML

front end (7 class)

→ HTML / CSS

→ How web works

→ CSS (works)

↳ Inheritance + cascading

→ Advance CSS

→ Responsiveness and Accessibility

→ performance in HTML / CSS

→ food subscription web page

Accessibility

↳ (screen reading)

Java script

→ Basic (datatype, code Execution, call stacks)

→ functional programming

→ oop's, Inheritance, (java / js)

(c → c++ → java → javascript)

x

→ Async js and concurrency.

→ Event loop

→ call back

→ promises

→ async await.

→ polyfills (implementation of modern feature that were not available in older version to provide backword compatibility we have to build it)

(js1) → (js6) ..... (js18)

→ polyfills of promise method
→ Flattern array and object
→ Deep copy and shallow copy.
→ polyfill of bind, call, apply.

→ ES6
→ Error handling.

③ <u>frontend machine coding</u>

→ Star rating
→ count down timer
→ Nested comment box
→ type ahead (Auto completion feature)

→ DOM / storage
→ Optimize browser performance

→ HHp protocols

→ project

↳ Kanban board

↳ chess board (Data Structure)

(Vectorization)

· React

→ Basics

→ React hooks

→ Routing

→ Memoization

→ Redux, context API

project

↳ E commerce website

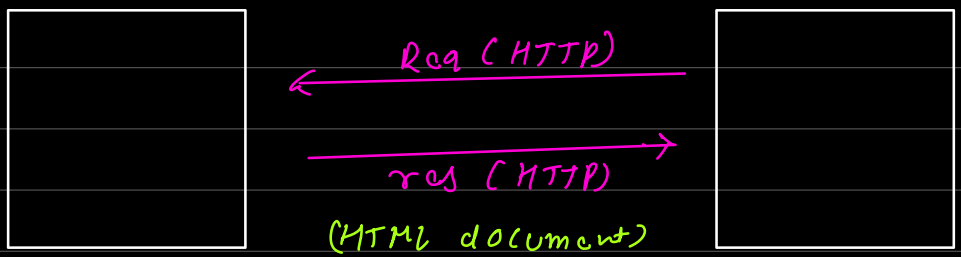
→ Testing + Interview problems.

performance matrix

① performance (load time) ③ best practice

② Accessibility. ④ SEO

How browser render web-page



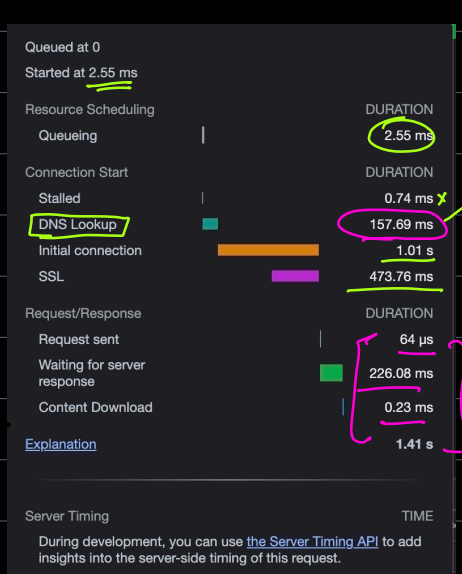
protocols (HTTP, HTTPS)

Communication
- http
- tcp

Managment
(monitor or maintain)
- ftp
- SNMP (managing nodes)

Security.
- SSL
- https

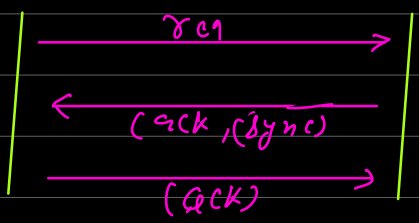
→ first response is HTML document.



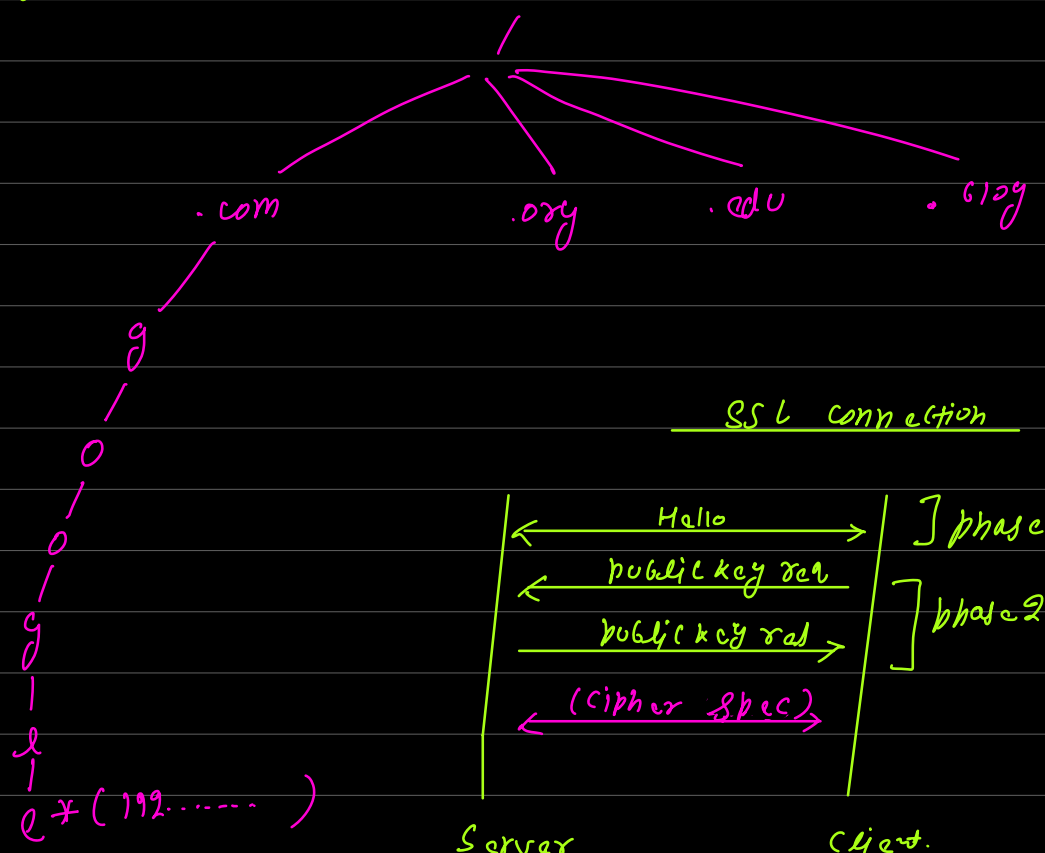
Domain name server
(mapping of name → ip addr)

(webpage)
↓
(Browser)
↓
(OS)
↓

initial connection



(Router)
↓
(local ISP)
↓
(DNS lookup)



SSL connection

HTTP response

① Navigation

① DNS
② TCP

→ cache (to optimize performance for further

① SSL
② Req

request)

① latency : time in b/w req/res.

② (time to first byte) : receiving first package

③ First package : 14K6.