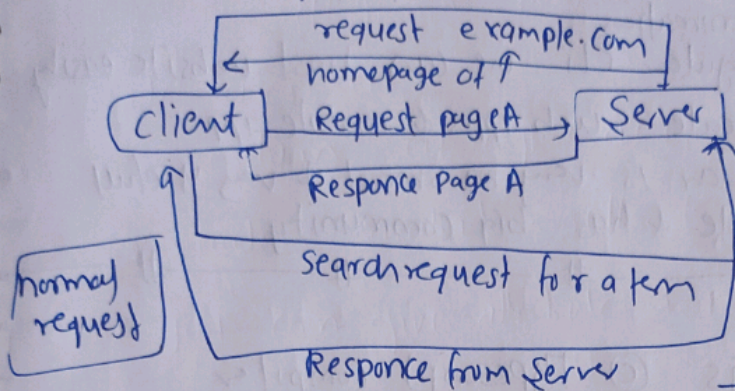


Angular

SPA \Rightarrow single page Appⁿ

Single Page Appⁿ

\rightarrow normal website need to send multiple request as content is spread



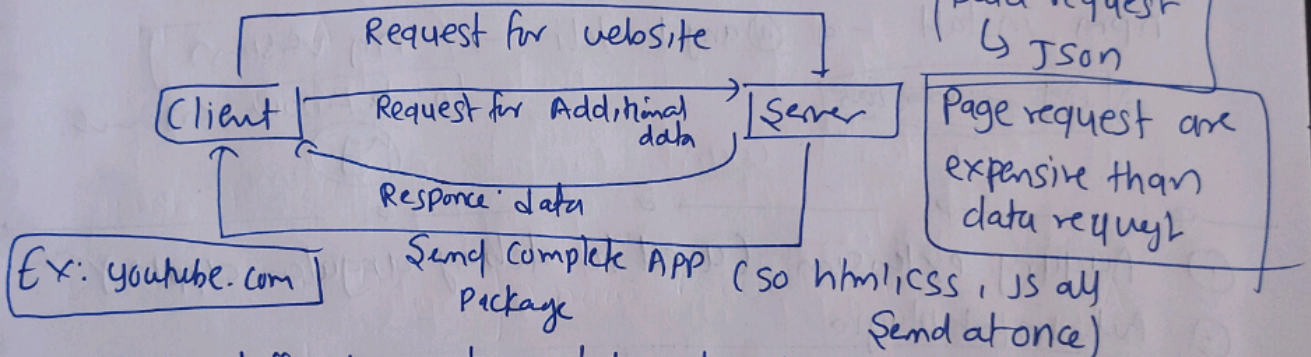
Multiple page requests going to Server

Client get new data continuously so it is reloading many times

\rightarrow Multiple request need max bandwidth

Ex: amazon.com

for SPA Single Page Appⁿ



\Rightarrow so for different routes data already send

\Rightarrow so only additional data is asked by client & that only send by server this avoid large request intercommunication

• Data requests are cheap than page requests.

In developer tool of browser you can see network activity

\Rightarrow In normal page ~~multiple~~ some resources requested multiple no. of time which make ~~hard to detect~~ system non-optimised

\Rightarrow Reloads also reduces which make websites fast & efficient at same time

\Rightarrow wim Angular we can produce single page Appⁿ (SPA)

Why angular?

→ It is a frontend framework, has features like:
① Protractor ② Forms ③ PWA ④ Augury ⑤ lang-Service etc

→ Build on top of Typescript

⇒ ~~EDT~~ ⇒ support HTTP and AJAX request

⇒ support Animation

⇒ with angular cli we can host website easily

Angular can be used to create web apps & mobile app

⇒ Basically angular is very smart & very useful

⇒ Created by google & has big community

Setup Environment

① Browser ② Nodejs ③ Typescript compiler

`node -v` `npm -v`

to check versions

`npm install -g typescript`

`tsc -v` for typescript

`npm install -g @angular/cli` → `ng version`

⇒ ~~ng version~~

to know version

`ng`

① Augury extension (used to debug angular app)

② Auto import plugin

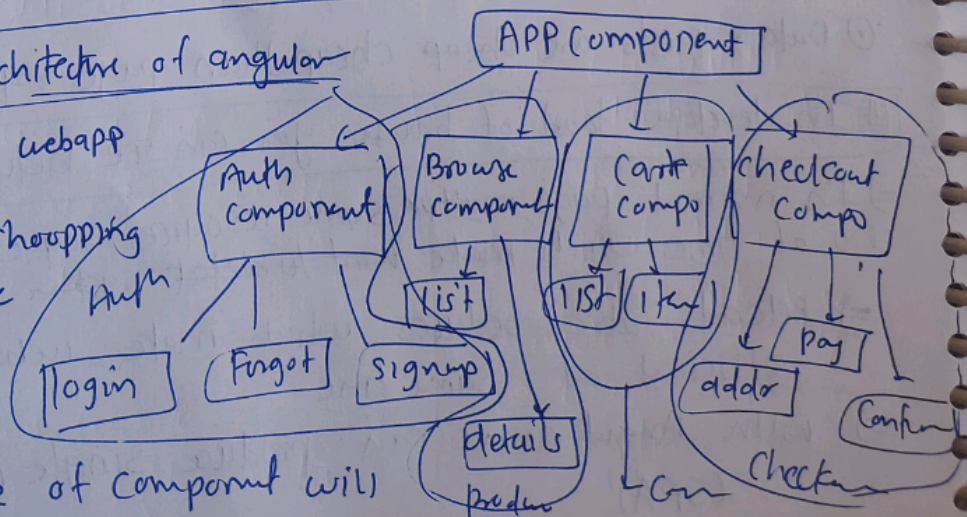
③ Stackblitz ⇒ online development toolkit ⇒ websites

④ Codesandbox ⑤ NG-Run

Architecture of angular

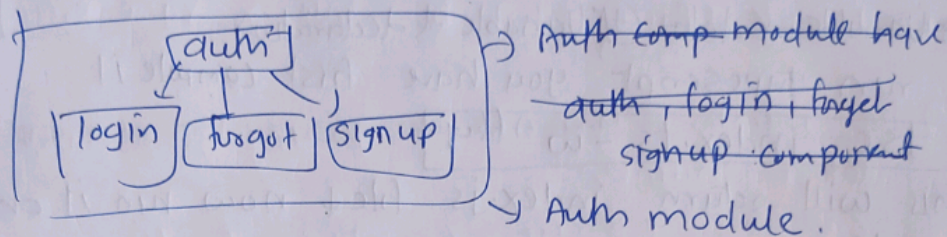
① the angular webapp

Say a shopping page



so such tree of component will form for a webapp

- ⇒ All things on webapp created by angular is related to angular
- ⇒ Each component is section and in angular we can create each component separately
- ⇒ Architecture of angular app depends no. of modules and each module has own component



- ⇒ So a app is made up of different modules
- ⇒ Each module has some directives, routing and other configurations

⊕ Build first angular application

to create new angular app

- ⇒ ng new appName ⇒ (take some time)
- ⇒ ng serve → to start running your angular app

⇒ Say yes for angular routing

⇒ use CSS for styling

① package.json contains Scripts that is commands that we can run

Ex: ng serve | ng build | ng test etc

↓
 build the app and compile code

ng serve --host 0.0.0.0 --port 4201

↑ to run ng serve on specific port

g ⇒ generate c ⇒ Component p ⇒ pipe s ⇒ Service

cl ⇒ class i ⇒ interface B ⇒ enum

m ⇒ module d ⇒ directive S ⇒ Service