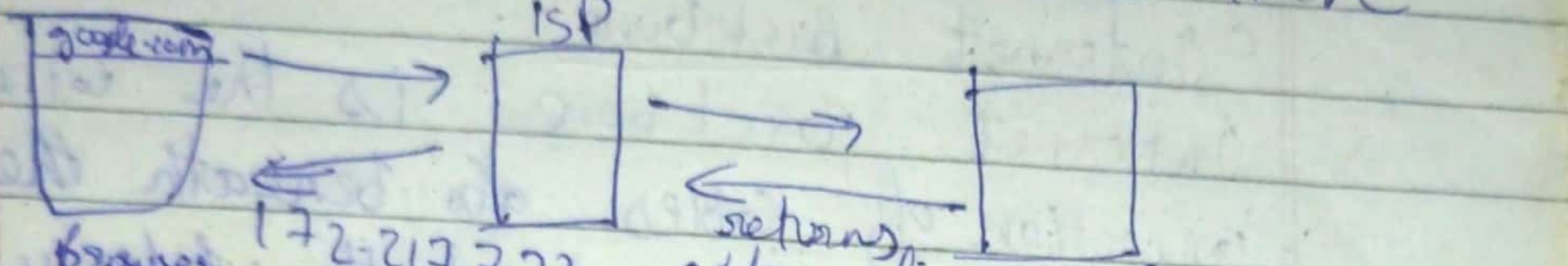
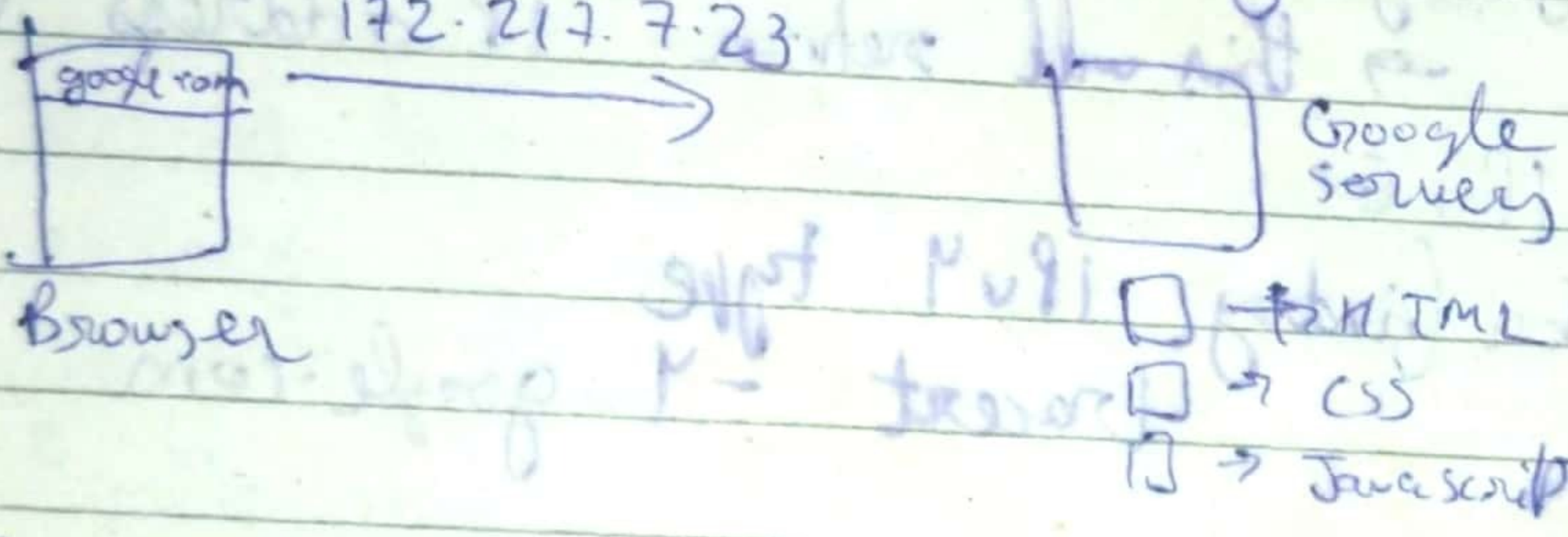
WEB DEVELOPMENT

Browsing the web

When we type the URL of the website for eg: google.com in browser then



After recieving IP address of URL



In this case both have IP address so that both client (browser) & server (google server here) can communicate each other as it contains information & location. IP address is given to a client whenever it is connected to Internet

Once the IP address obtained gives text reached to Google server.

Files → HTML

If we just type IP address then request is directly go to that particular server

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Internet Backbone: For eg → when using wifi the modem transfers the data to ISP ~~through~~ to tower which may use cables or just wirelessly pass to the ISP. Then the ISP pass the request to 'Internet Backbone'.
Internet backbone is the wired connection of cables ~~etc~~ beneath the sea floor to connect to the whole world.

Note: To find IP address using cmd type
for eg tracert gogle.com
→ this will return IP address which is IPv6
for finding IPv4 type
tracert -4 google.com

Developer Fundamentals

Q- 3 factors deciding how fast the website function
1- Location of Server of website → Closer the more faster
2- How many Trips → lesser no. of trips (ie sending & receiving request from server) the more faster
3- Size of ~~Files~~ files → The more size of text files (ie HTML, CSS, Javascript) the more slower

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Role of Developer

Full Stack Developer

Front End Developer
HTML
CSS
Javascript + React

Backend Developer
Server
Node.js
Express.js
Database
PostgreSQL
MongoDB

Here Node server

A front-end developer implents visual elements that users see & interact with.

Backend developer focuses on databases, scripting & the architecture of websites. They focuses on the inner workings of web applications.

Full stack developer manages both.

~~World~~

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History

World Wide Web → Before www introduced there was a problem of communicating with computers over the world bz they have own way of ~~completing th~~ doing things so www provides a common language ~~that~~ for computers to ~~co~~ make them communicate easily. It's a universal language over the world.

* HTML, CSS and Javascript

HTML (Hypertext markup language) is use to structure a web page & its content. Content could be structured within ~~paragraph~~, points, etc or using images, data tables or hyperlinks (to connect to other web page or site).

CSS adds visual aspects or style the web page

Javascript is a scripting language which makes the web page interactive

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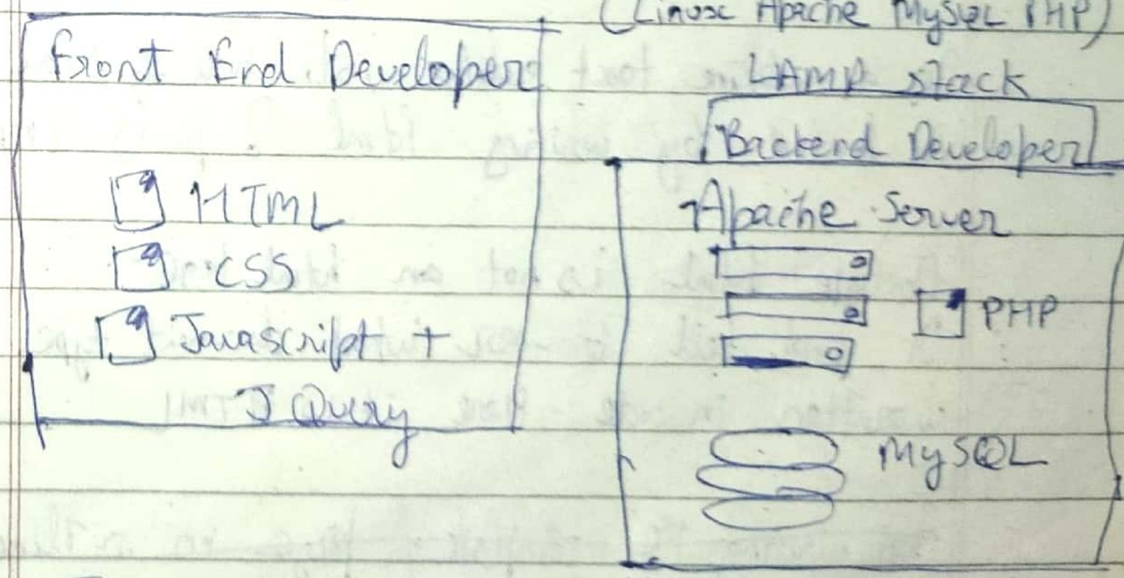
Developer Fundamentals 11

After the www has arrived there was a problem that different browsers read HTML, CSS & Javascript in a different way until a standard arrived.

So Developers have to make these files such that it looks all the same in different browsers. To solve this problem different tools are used.

Now we have mobile phones, ipads so this task is even more complicated for different ~~screen~~ screens too.

In the early 2000's



JQuery was a library allowing javascript to be written in a simple, clean way not to ~~worry~~ worry too much in working in different browsers