Web Application
Html
CSS
Bootstrap
Javascript
JQuery
Call the API's
Node
express
React

e-Commerce

Native Application

C/C++

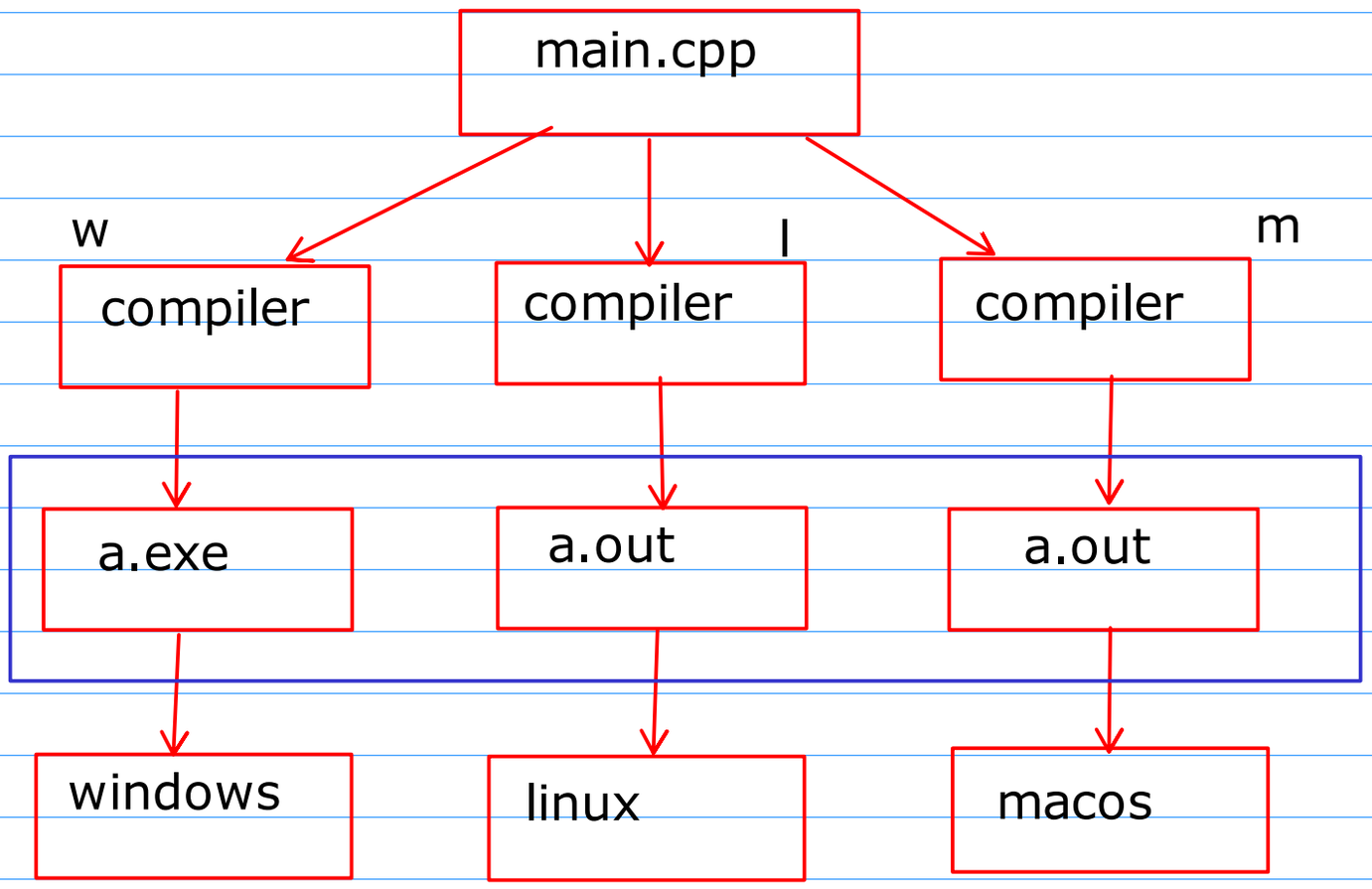
Web Application

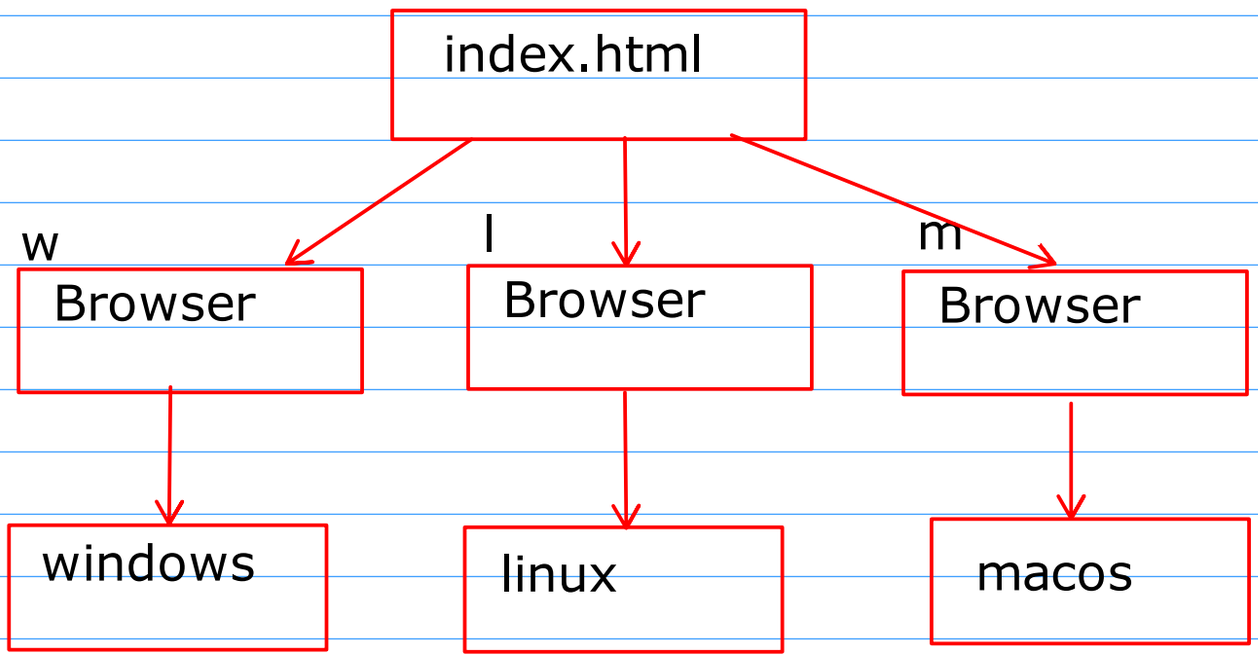
html/CSS & JS

Compiled
- Compiler -> It converts the src code into machine understandable code
- It creates an executable file
- It is platform dependent

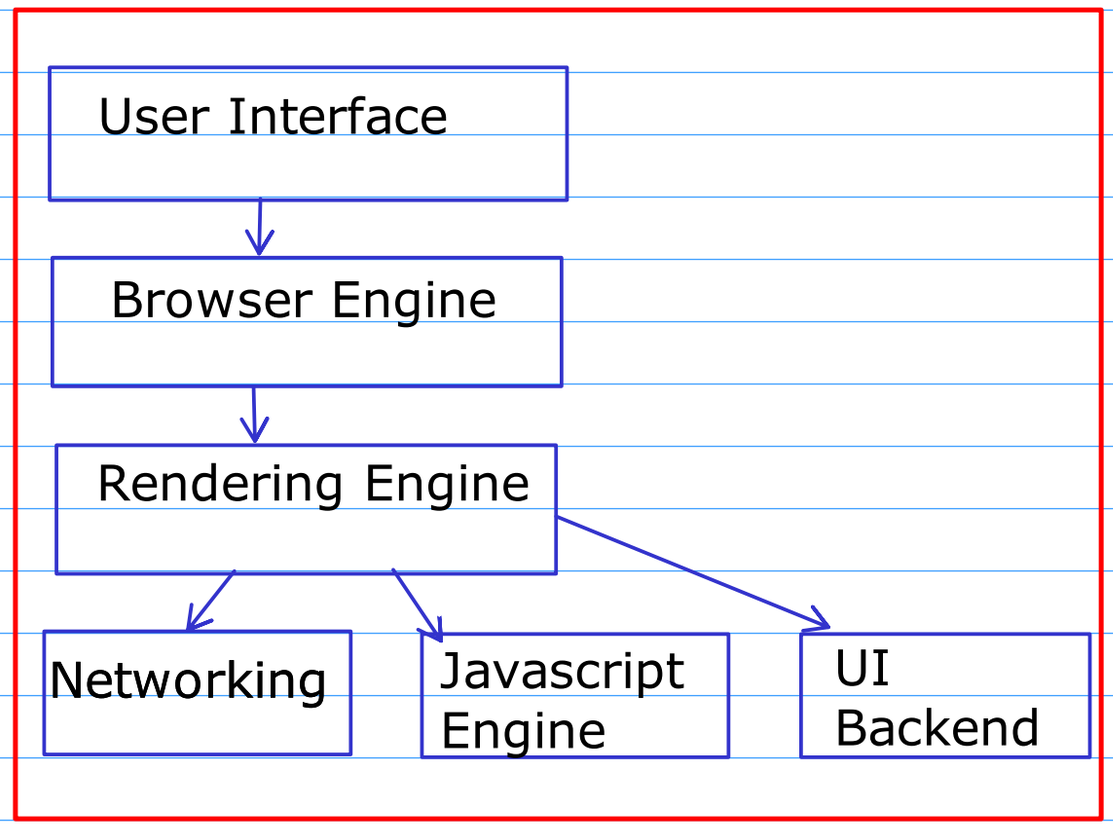
Interpreted
- Interpreter -> It converts the src code into machine understandable code
- on the fly
- It is platform independent

Browser -> Native Application





Browser Architecture



Rendering Engine
Safari - webkit
Chrome - Blink
Firefox - Gecko

Javascript Engine
safari - Javascript Core
chrome - V8 JS Engine
firefox - spidermonkey

Server

Software Stack
WISA

MEAN
MERN

128 GB RAM

1000 TB HD

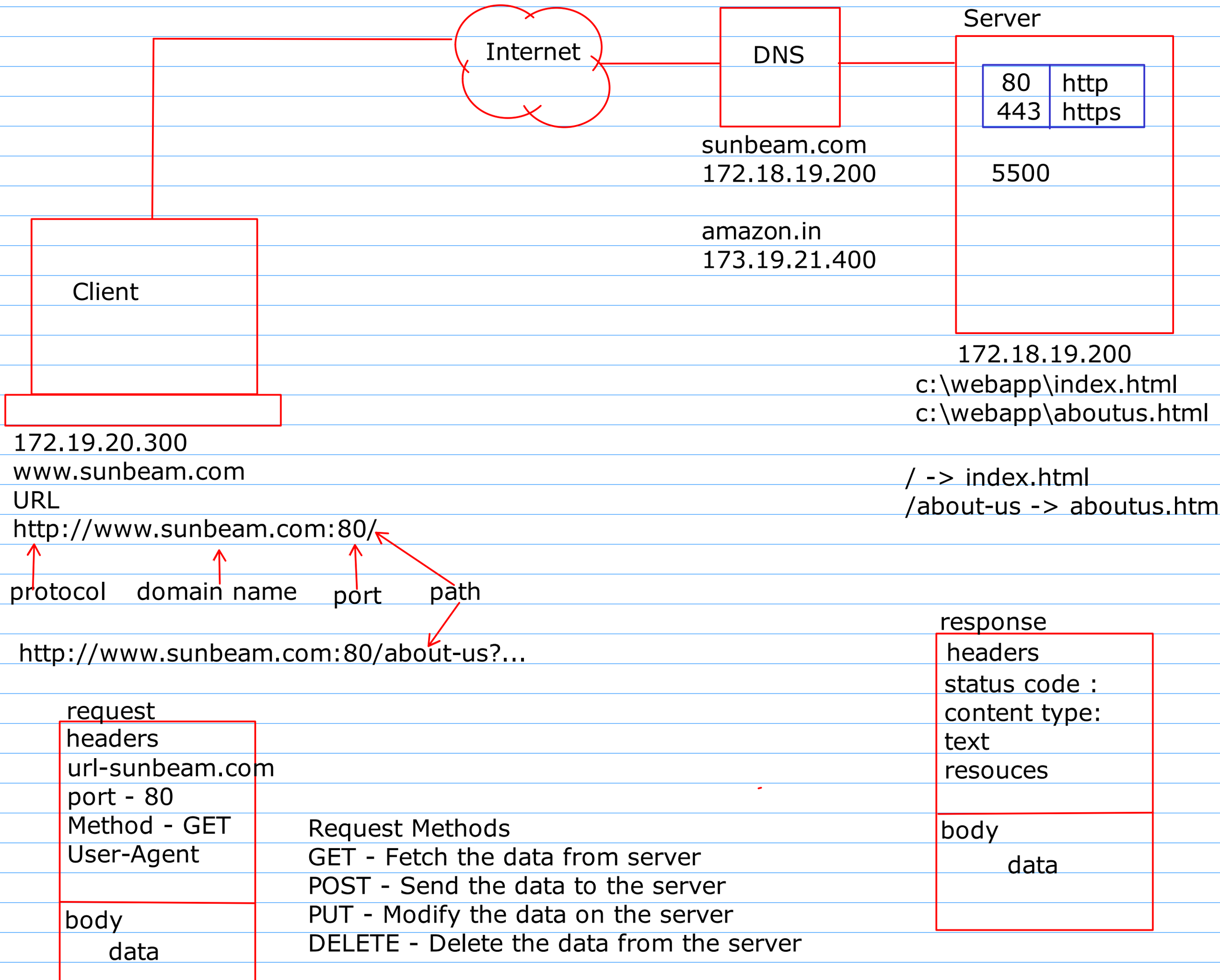
Web Server
Database Server
Backend Server

Physical Hardware Device

Web Architecture

Live Server

IIS
apache
nginx



status code

1XX(Informational)
100 -
2XX(Responses)
200 - Response Generated successfully
3XX (Redirection)
4XX (Client Errors)
404 - resource not found
5XX(Server Errors)

URL

HTML
- Hypertext Markup Language

Tags -> Elements
It is a word enclosed in the angle brackets <>
Opening Tag
Closing Tag
Empty Tag
Root Tag

Opening tag
<html>,<body>, ,<a> , etc

This is a para

Closing tag
</html>,</body>, ,</a> , etc

Empty Tags
<hr>,
,<img>,etc

Root Tag
<html> ,</html>

index.html

```
<html> // Root Tag

<head>
      // metadata of this html page
<head>

<body>

      // UI
<body>

</html>
```

Live Server
- Add it to the vs code from the extensions
- It is by default configured for the http protocol on port 5500
- To access the html pages we have the use the below url
    127.0.0.1:5500/page01.html
    localhost:5500/page01.html

Head

- Inside the head tag we can use

1. meta
    - metadata for our page
2. title
    - to add title to our page
3. link
    - It is used to link the external resources
4. style
    - To add the Internal CSS to our Html page
5. script
    - To add the Javascript to our html page
6. base
    - to add the base url for our application

body

- Textual Tags
- Resource Tags
- List
- Table

Attributes

- It is a name-value pair information kept inside the tag
- id,name,class are the attributes common for all the tags

Textual Tags

HTML

- Hyper Text Markup Language