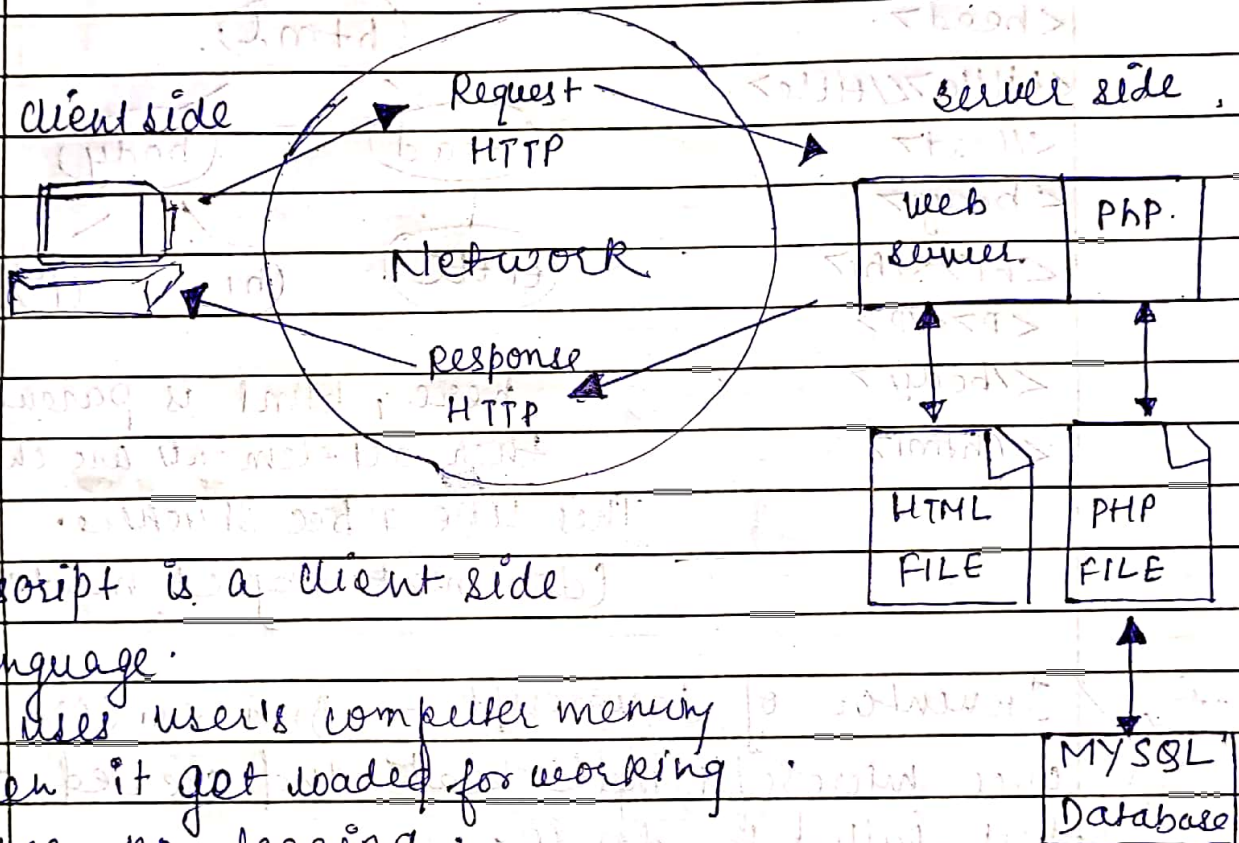


Javascript

Server - Nothin but a computer that has ability to transfer and receive data from any ~~where~~ where in the world.



• Javascript is a client side language.

- It uses user's computer memory when it gets loaded for working.
- Hence no lagging.
- No memory load.
- Run on the client side.

In server side language, we face problems because when user uses, it gets loaded on server side so, when many users access it at a time then it may crash or lag.

→ Javascript is also DOM Manipulating language.

- DOM - Document Object Model.
- What is DOM.
- DOM interpreter ~~converts~~ in browser converts the html elements into a tree structure.

<html>

<head>

<title></title>

</head>

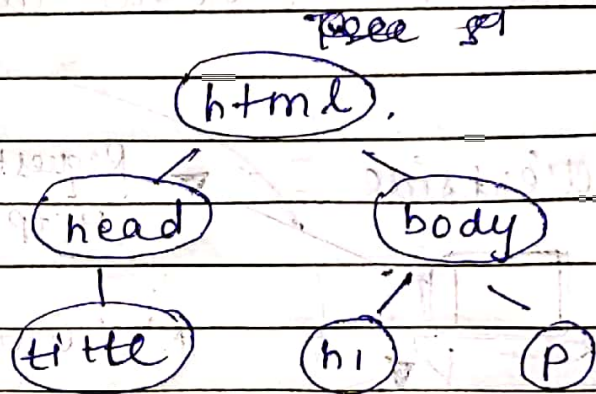
<body>

<h1></h1>

<p></p>

</body>

</html>



here, html is parent of all then all elements are child of it

This like a tree structure.

(document object model)

Inventor of Javascript → Brendan Eich.

once Microsoft tried to beat and created jscript but failed to do so.

→ Javascript - DOM Manipulation Language.

It means it has ability to manipulate the dom means, it can add something to it or ~~was~~ update it or remove it or ~~rem~~ we can say it can make changes to it.

It has all the programming control or any other languages has.

- It contains almost all the programming controls.
- It has lot of inbuilt objects that is needed to manipulate the dom.

↳ In this we do (programming + dom manipulation)

```
<script>
```

```
console.log(" ");
```

```
</script>
```

whatever will be written inside the double code will be printed on the console.

- If using ~~code~~ internally do not write JS code in head tag. write in below html code it may cause below html code. like inside body tag after html code.
- Using External JS is more relevant it is cleaner and helpful when we have long code.

• To create a New JS file

- ① New file index.js ~~(no)~~
↳ no need of script tag.

- ② how to link file and html file.

```
<script src = "index.js" ></script>
```

Save all the file which is connected to html if any changes is made in any file.

Variable

↳ temporary memory location which stores data.
Syntax:

var name = "Riya"

Actually name here is the identifier of the variable through which we identify memory location.

We don't have any data type in JS.
here var is "variant".

var name = "Riya".

name is type of var whatever data you fill inside variable will take type of var.

JS — loosely typed language
or
dynamically.

Difference between var & let

- (1) let is block scoped.
- (2) var is function scoped.

Const

const name = "Riya"

now name is not more variable it has become a constant.

so, we will not be able to change its value.
Or we can say now we can't assign anything to it.

- we can use `typeof()` to find the type of variable

Types

Number : 1, 23, 5.14

string : "hello there", 'hello there'

More

`1 == '1' → (boolean) (True)`

`1 === '1' → It checks the type`

Day 01 Agenda (Topics covered)

- Introduction to JavaScript.
- Downloading VScode.
- Starting with basic JavaScript.
- var, let and constant.
- Number and String Datatypes.