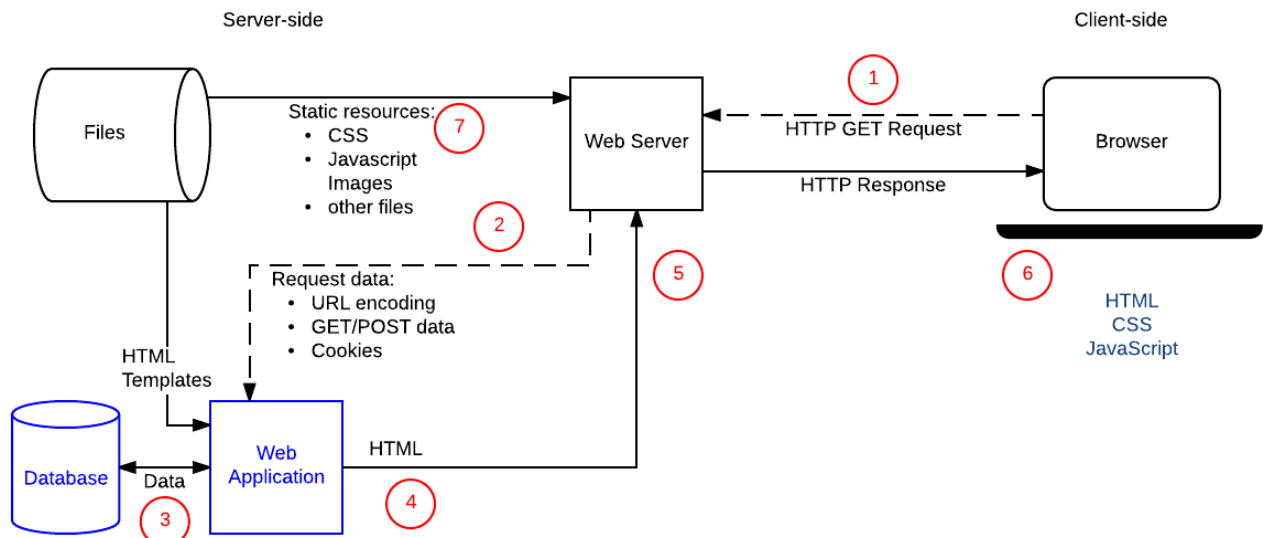


Introduction to Web & HTML

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How websites/web applications work:



• Client-Server

1. User sends request to access website through some computer program i.e. via browser or some other software known as client.
2. Client request or URL is mapped to particular IP address of web server where requested website is hosted
3. Web server stores all the files & is responsible for backend processing which maybe in python, php, Java and produce ready to serve HTML, CSS & JavaScript.
4. Client process this 3 files and present website to user

• What is a web server?

- ☐ 1. Web server is a piece of software that runs on the main computer to serve web content based on HTTP or HTTPS requests from other computers in a network.
- ☐ 2. Apache and Nginx are popular examples of web servers. Apache is an HTTP server released in 1995 and is free and open-source software with no server-side services and allows you to host static websites e.g. HTML/CSS/JavaScript.

• HTML, CSS & JS

1. HTML (**H**yper**T**ext **M**arkup **L**anguage) is **must** & CSS and JS are optional for website. HTML is like static skeleton to web application or websites with no body/beauty (css) or brain (JS).
2. CSS (**C**ascading **S**tyle **S**heets) adds beauty to web page and handle presentation of web page containing HTML.
3. JS (**J**ava**S**cript) is high level dynamic interpreted programming language. It allows client scripting to create completely dynamic web applications and websites i.e. we don't have to send request to server to perform some logic.

Structure of HTML :

```

index.html > html
1  <!-- specifies this is HTML 5 document -->
2  <!DOCTYPE html>
3  <!-- the root of the HTML page and defines language as English -->
4  <html lang="en">
5  <!-- contains page metadata (information useful for search engines) -->
6  <head>
7  |   <title>title of website</title>
8  </head>
9  <!-- main body of the webpage rendered by the browser -->
10 <body>
11 |   <!-- Content to display on page will come between body tag -->
12 </body>
13 </html>
14

```

- **Doctype HTML:** For browser to understand we are defining doctype as HTML 5. Different HTML doctypes [visit](#) .
- **<html lang="en"></html>:** the root of the HTML document and opening tag defines language as English.
- **<head></head>:** head tag contains all meta-tags in it which contains page metadata (information useful for search engines like keywords and descriptions on our website). Head also contains title of website and external CSS and JavaScript that we link to it.
- **<body> </body>:** main body of the webpage rendered by the browser. Will have different HTML tags which are responsible for arranging (layout) and including content of website.