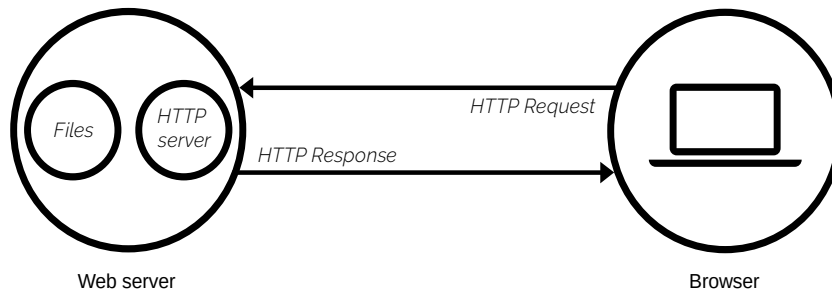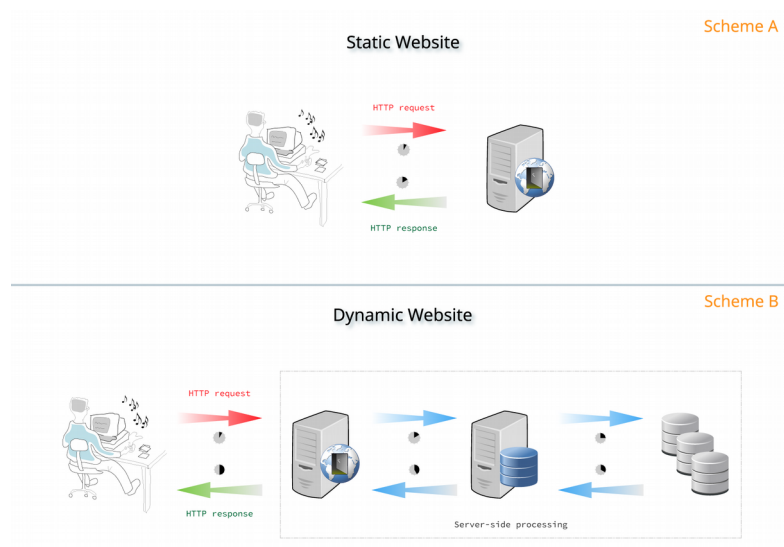# WEB SERVER – THE HOST

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A web server is both a hardware as well as a software for storing a website and its details.
On the hardware side it is reffered to store the software of the web hosting server .
On the software side it is a collection of files (Html files,CSS stylesheets,Javascript files and the database etc.) required for a website to be accesed by the end user .

Generally when the end user types the domain name of a website , For example : www.google.com
The browser requests the web server (say Apache , Microsoft IIS) in the above it is an http (Hypertext transfer protocol) request. The web server checks for the availability of the website sends an http response.If the website is present then it is displayed on the browser,else it throws an error .If is it a 404 then the webpage doesn't exist , If it is a 401 then the credentials(Username,Password) provided is incorrect.

A web server can be of 2 types :
1. Static
2. Dynamic

A static web server sends hosted website files directly to the browser ,whereas a dynamic web server consist of an application server and a database . The job of the application server is to have an html template and uses the template changes inside data using the database.

We can always host a website using our local computer but a web server is always on and it is connected to the internet and its IP address never change and finally it can be scaled to many users simultaneously , whereas in a local host the load will be heavy and the system would crash.