## Client - Server

**Client-Server Architecture**

- Web site can be assumed as software which usually runs on multiple machines rather than just one machine. Though you can run it on a single machine for testing and development purpose.

- Client and Server both are computer machines but they are named so because of their roles in the communication.

- When you access any website like mysirg.com, you use your computer or mobile. You have to be hooked up with internet in order to access it because the page you wanted to access is located on some other machine. Internet makes communication possible between two devices situated at any geographical locations.

- Technically your device (computer or mobile) is making request to other machine (or device) where your website is hosted. As a response this machine gives you the desired web page to your device. You can think of this communication happened between two machines, but actually this is the communication between one application on your device with the other application on other machine. Usually these applications are web browser and web server.

- Web browser is software in your computer or mobile where you type URL of the desired web page. Web server is a program residing in other machine where website is hosted.

- The job of web browser is to make request to the web server for some resource like web page.

- The job of web server is to receive request and provide response.

- Another job of browser is to receive response which is nothing but plain text which may contain HTML, CSS and sometimes JavaScript. Browser renders this response and display page to the user in user understandable format.

- Client is a term can be used for device or browser which is responsible to make request for web resource. Server is a term used for machine or web server which is responsible to handle and fulfil client's request.