

Day (11), 11 June, 2021 Friday.

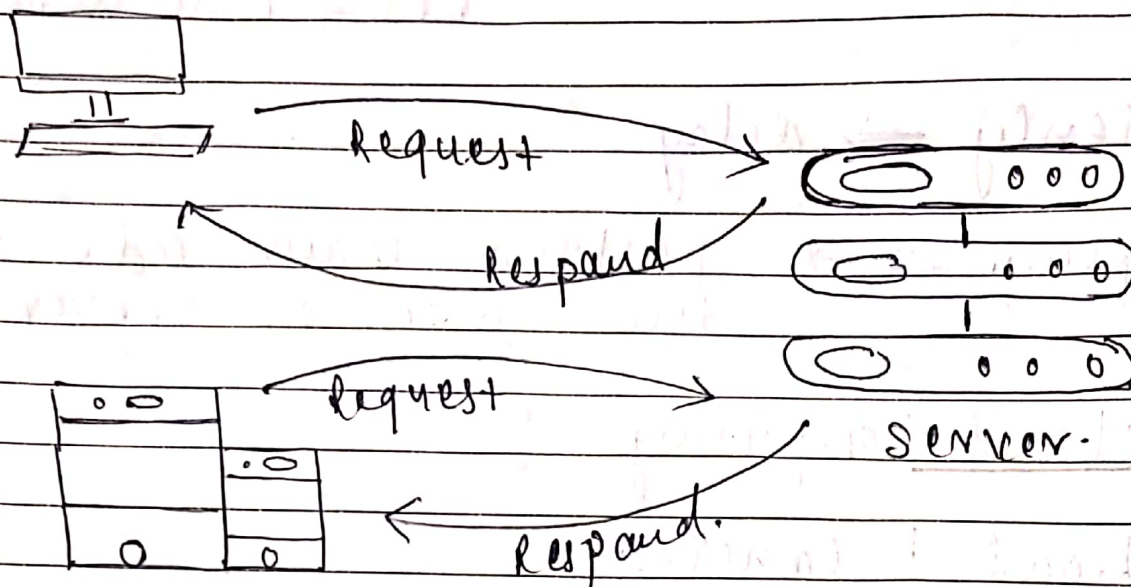
List of New words.

- ① Latency \rightarrow delay
- ② deployment \rightarrow pushing your code to the system or server
- ③ ~~big~~ cloud computing :-
- ④ Load balancing :-
- ⑤ Server replication :-
- ⑥ virtual machine
- ⑦ Server

~~Group~~

Client and Server

\rightarrow A client is a device which needs some kind of data from the server.



Client

Server :- These devices are used to store the information and process that information and return something that the client is looking for.

→ What we have done so far is, we have created a frontend application, then we have opened that file in your computer itself and your browser has read that file whatever you have stored.

→ In future, In production means you will be going to put your application live on the internet, that means you will be putting your application on other computer (server) that works 24x7.

→ when ever client request some information, server will give that information.

doubt :- (video timing :- 11:50).

Considering the web application you have built, it can take 5000 request per sec.

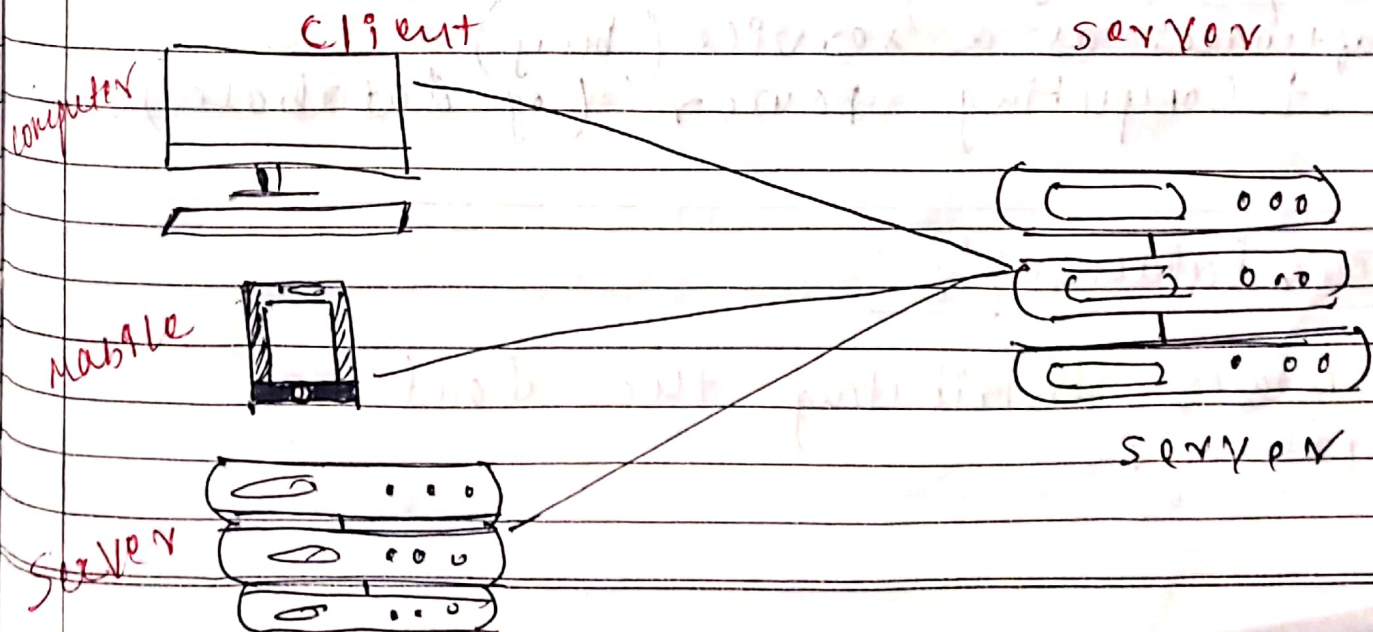
what happens when the request 1 to 6000 per sec.

- 1) server down.
- 2) timeout error.

∴ server has the some kind of capacity, that it can't process ^{not} more than that amount of request per sec.

→ you need to add more servers to process more request.

→ A server can also be a client to another server.



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① Latency :- It is a technical term used to define delay in some request or some kind of processing.

② Latency :- Latency is the delay b/w a user's action and a web application's response to that action.

② Deployment :- Pushing your code ^{to a} ~~server~~ server and running it.

③ Cloud Computing :- Market place where you can buy computing resources in bulk or as per your usage.
eg Software as a service (buy)
+ Computing power (eg database).

④ Load Balancing :-

It means distributing the load of anything.

eg. distributing the equal no. of request on each server.

⑤ Server replication:-

duplicating the server to serve more and more request.

⑥ Virtual machine.

A VM is a Computer file, which behaves like an actual computer. In other words creating a computer within a computer.

⑦ Server:-

- is basically a computer. Many a times a server is not located at home but located at some data center.
- 24x7 365 days works
- Servers are not generally built up with commodity hardware means they have very high configuration and are expensive. Commodity means, things which are used generally.