

# 12th April 2021

## Previous Day:-

- forking project
- git push -f origin main:main
- branches
- MCQs

## Web Architecture

### Lecture Flow:-

- Internet
- Protocol
- IP Address

## Topics & Explanation

### 1. Internet

It is a group of computers that are connected together and can communicate with each other on the internet. We have millions and billions of devices that have different hardware, operating systems and so on.

### 2. Protocol

It is a set of rules to do anything. The two most popular protocols are:-

- Transmission Control Protocol - we can transmit data from one place to another.
- Internet Protocol - locate computers on the internet
- Simple mail transfer protocol

### 3. IP Address

Every computer on the internet has a specific address that allows us to locate it on the internet.

eg., 0-255,0-255,0-255,0-255

You can check your ip address at [What Is My IP Address - See Your Public Address - IPv4 & IPv6](#)

There are limited ip addresses in the world and we use them on rent.

Ip address of the Amazon is **52.95.116.115**; you can also type this ip address to go to Amazon website instead of typing **amazon.in**

For humans it is easy to remember the name instead of the ip address whereas computers can only remember ip addresses instead of names.

There is a system called Domain Name System or DNS, they actually map the names to ip addresses.eg., **google.com** - **142.250.77.174**

Name Server - it keeps all the domains and the relevant IP addresses.

Website is divided into categories :-

- Frontend - HTML (programming language - layout) + CSS (cascading style sheet- styling language - styling) + JS (scripting language - behaviour)
- API(application program interface) - common language which allows people to exchange information on the internet.
- Database - it is an organized collection of data.
- Schema - it is the blueprint of the database. DB(order, mobile, price, cake type, customization, occasion, message, paid or not).
- Server - storage on rent on cloud. eg., (aws), (map), oracle, (gcp), IBM, digitalocean. You can access the database by using the command line(terminal/git bash) and you can securely login (ssh) into the server using the IP address of the server and its password.
- Database - MySQL, Microsoft Access, Oracle.

# MCQs

How do you create a copy of an assignment under your own GitHub account so that you can solve the assignment?

Attempted  
- 33  
(58.93%)

EASY



- ☒ Forking it via the GitHub interface 78.79%
- ☐ git clone 18.18%
- ☐ git pull-request 3.03%
- ☐ git fork



What is the full form of the DNS?

Attempted - 35 (62.5%)

EASY



- ☒ Domain Name System 94.29%
- ☐ Developer Naming Server 5.71%
- ☐ Delivery Network Service

Which of these is a valid URL?

Attempted - 36 (64.29%)

EASY



- ☒ https://www.google.com 100%
- ☐ www.google.com 5.56%
- ☐ google.com 5.56%



If the IP address of google is 142.250.77.174, then https://www.google.com will be interpreted by the computer as?

Attempted  
- 35  
(62.5%)

EASY



- ☒ 142.250.77.174:443 65.71%
- ☐ 443.142.250.77.174 20%
- ☐ https://www.google.com 14.29%

