**DOMAIN NAME SYSTEM**

**DNS:**

The humans, we are using the domain name for locating the Websites from the internet. But the computer didn’t understand the domain names so the Domain name System (DNS) translate the domain name to the IP address to computer readable ([www.example.com](http://www.example.com). -> 111.11.1.1). DNS helps users can access websites without remember complex numbers.

**How DNS Works:**

The conversion of domain name to IP address done in several stage in the DNS server. They are,

**Entering domain name:**

When we type the domain name the browser needs to find the find the IP address associated with the domain name.

**Process of Resolver:**

Basically, the Resolver is ISP (Internet service Provider) this searches the associated IP address in the memory if it found on that it sends the IP to the computer browser. If it doesn’t find the IP it sends the process to next stage.

**Root Server:**

The resolver sends the searching of IP to the root DNS server for find the domain. The root server points it to the correct Top-Level Domain (TLD) server. If the Root server found or not found the domain it informs the information to the Resolver.

**TLD server:**

If the root server could not found the IP address for the domain name the resolver sends the query to the TLD server. If the TLD server found it sends the IP to the Resolver.

**Fetching IP:**

Once the Resolver received the IP address for the domain it sends the domain name to the browser. And the IP connects to the server and the website should load.