domain names are easy to remember for an website to access rather than using ip address. for every website we host to make it accessible easily to the customers around the world we need to bind an domain name. Domain Names has to be bought/registered with an Domain Name Service provider.

There are lot of DNS providers are there like
1. godaddy
2. hostinger
3. mochahost
4. bigrock
etc
These providers along with providing domain name registration they provide even dns server services also to register your domain name and add DNS entries for resolving the domain lookups.
domain names are classified into 2 categories
1. generic top-level domains = .com, .org, .edu, .net
2. country-code top-level domains = .in, .uk, .us., .jp

upon purchasing an domain name we need to associate Nameservers for the domain name. The Nameservers are nothing but the DNS Server that holds the DNS Entries or records for that domain. By default when we purchase a domain name with an DNS Provider, the Nameservers for the domain will be auto-configured with the DNS Server of the provider itself.

In the DNS Server we need to write DNS Records. There are mainly #5 types of DNS Records are there
1. A record
A represents address record, it is used for mapping a domainname to an ip address of the computer, usually used by the web browsers in resolving the domain to the ip address of the machine where the web application is running to access.

2. AAAA record
is same as A record, it is also used for resolving a domain name query to the ip address of the machine but in a AAAA record we populate ipv6 address

3. CName record
is used for defining alias or sub-domains for a domain

root domain = goquick.net
            = hrm.goquick.net
            = payroll.goquick.net
            = sales.goquick.net

4. MX record
Mail Server ip address will be populated aspart of MX record

5. NS Record
NameServer record points to the NameServer where the DNS records for that domain should be stored.

6. TXT record
Text record used for domain verification.

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7. SOA record
8. PTR record
9. SRV record
10. CERT record
11. DName record