Web Browser

Web Server

Web Network

First Web browser – World Wide Web Browser (Nexus)

Web Browser

- It is an **application software**.
- It enables users to **connect and access** the **WWW**.
- It render web page code such as **HTML, CSS, and JavaScript.**

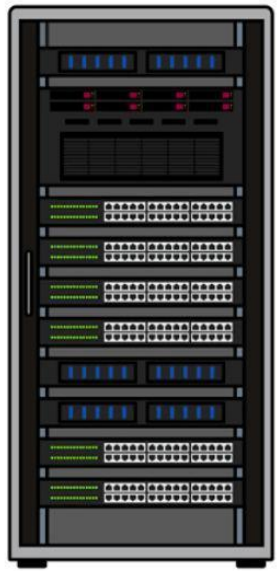
Web Browser

Web Server

Web Network

Web Server

- A web server is **software** or **hardware** that **stores**, **processes**, and **delivers web content** to clients.
- It listens for **incoming requests** from web clients and **responds** with the requested web pages or resources.
- Web servers use protocols like **HTTP**, **HTTPS** to communicate with clients.



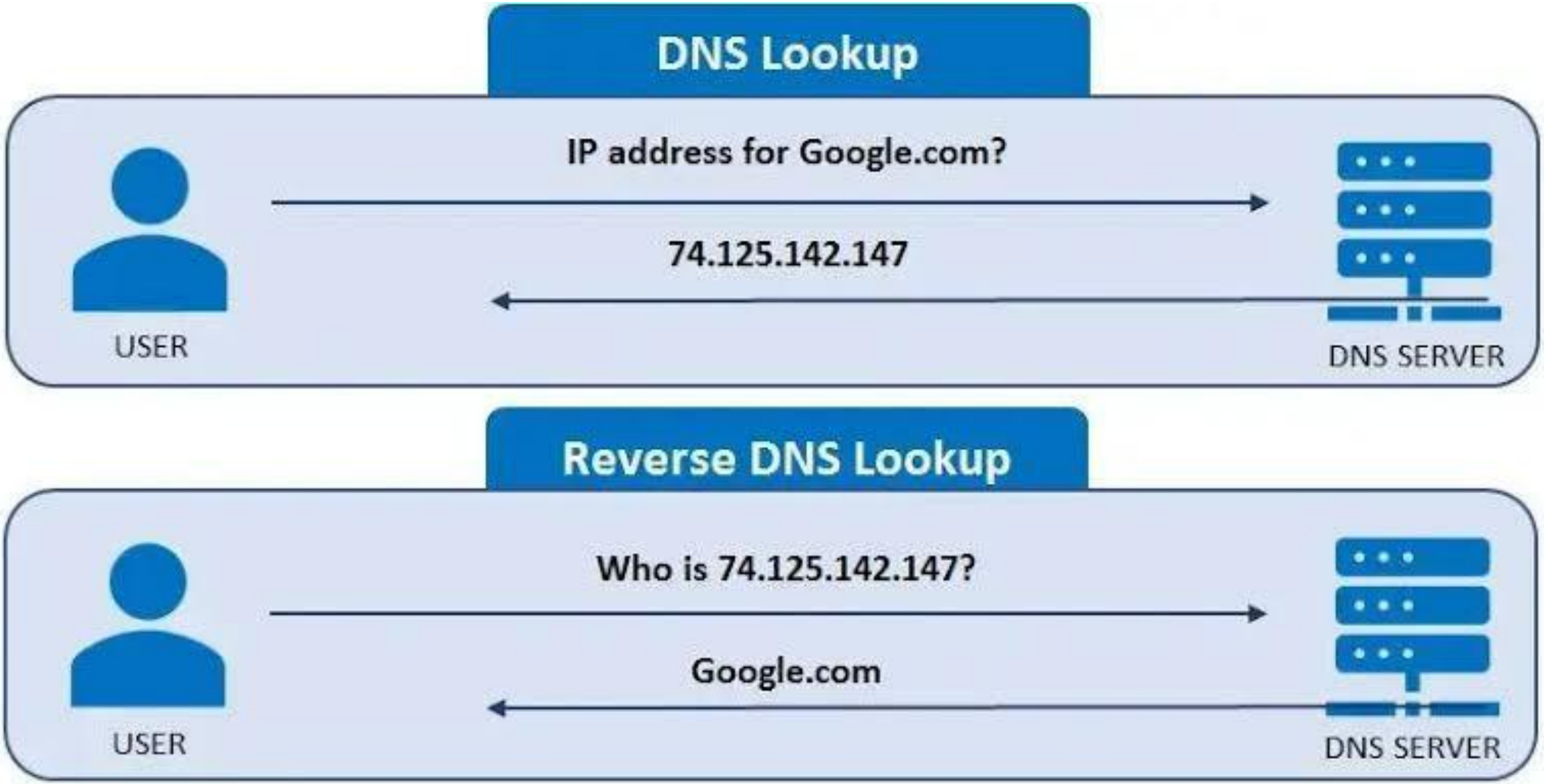
Web Browser

Web Server

Web Network

Web Network

- **Interconnected system** of websites and web pages on the internet.
- These websites and web pages are linked together through hyperlinks, forming a **vast network of information and resources** accessible through web browsers.


DNS Lookup
IP address for Google.com?
74.125.142.147
USER
DNS SERVER
Reverse DNS Lookup
Who is 74.125.142.147?
Google.com
USER
DNS SERVER

SEARCH ENGINES

altavista

Google

Bing

DuckDuckGo

yahoo!

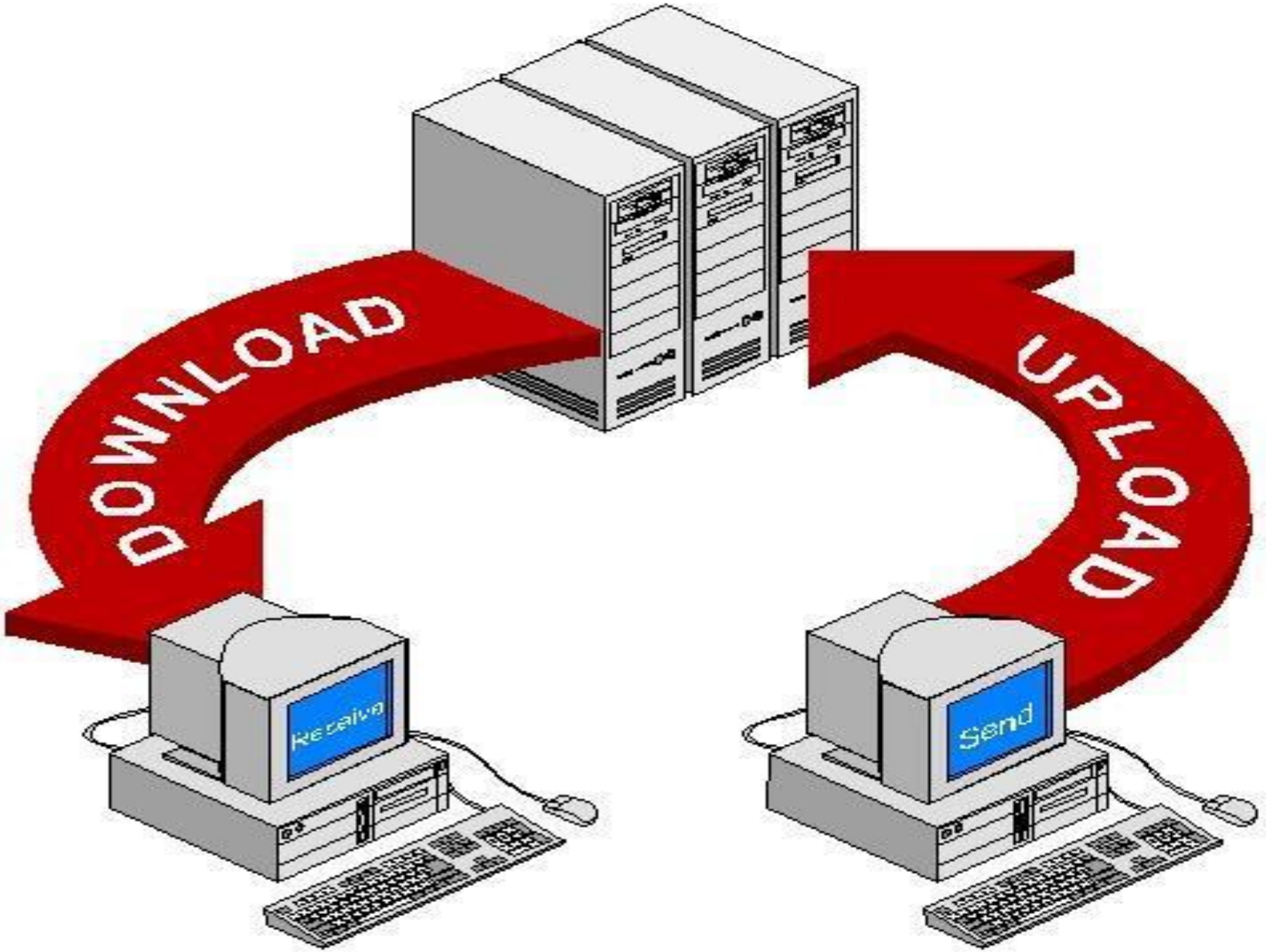
Ask

ARCHIE

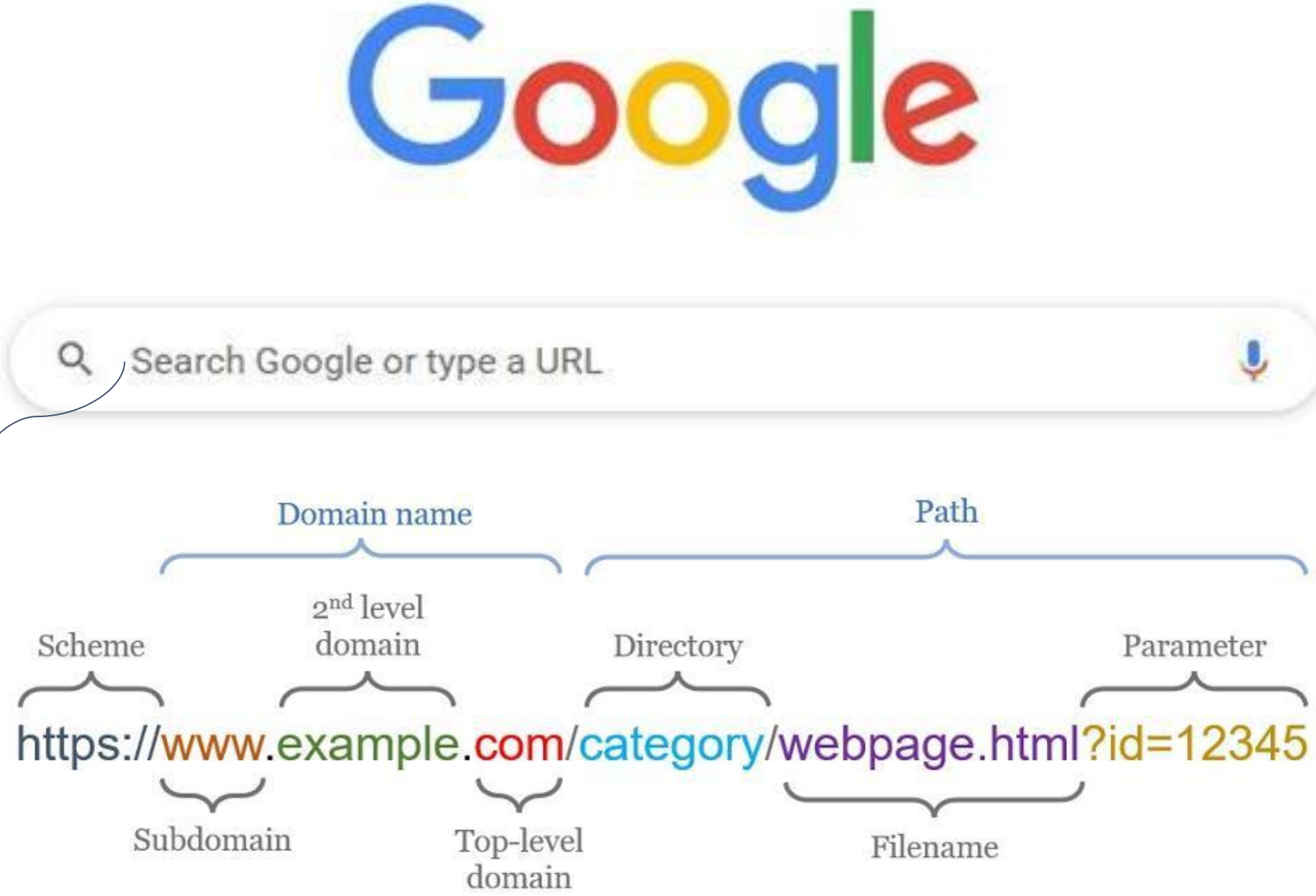
First Search Engine

A search engine is a **software** or **online platform** that allows users to **search and retrieve information** from a vast database of websites and web pages.

FILE TRANSFER PROTOCOL



URL STRUCTURE

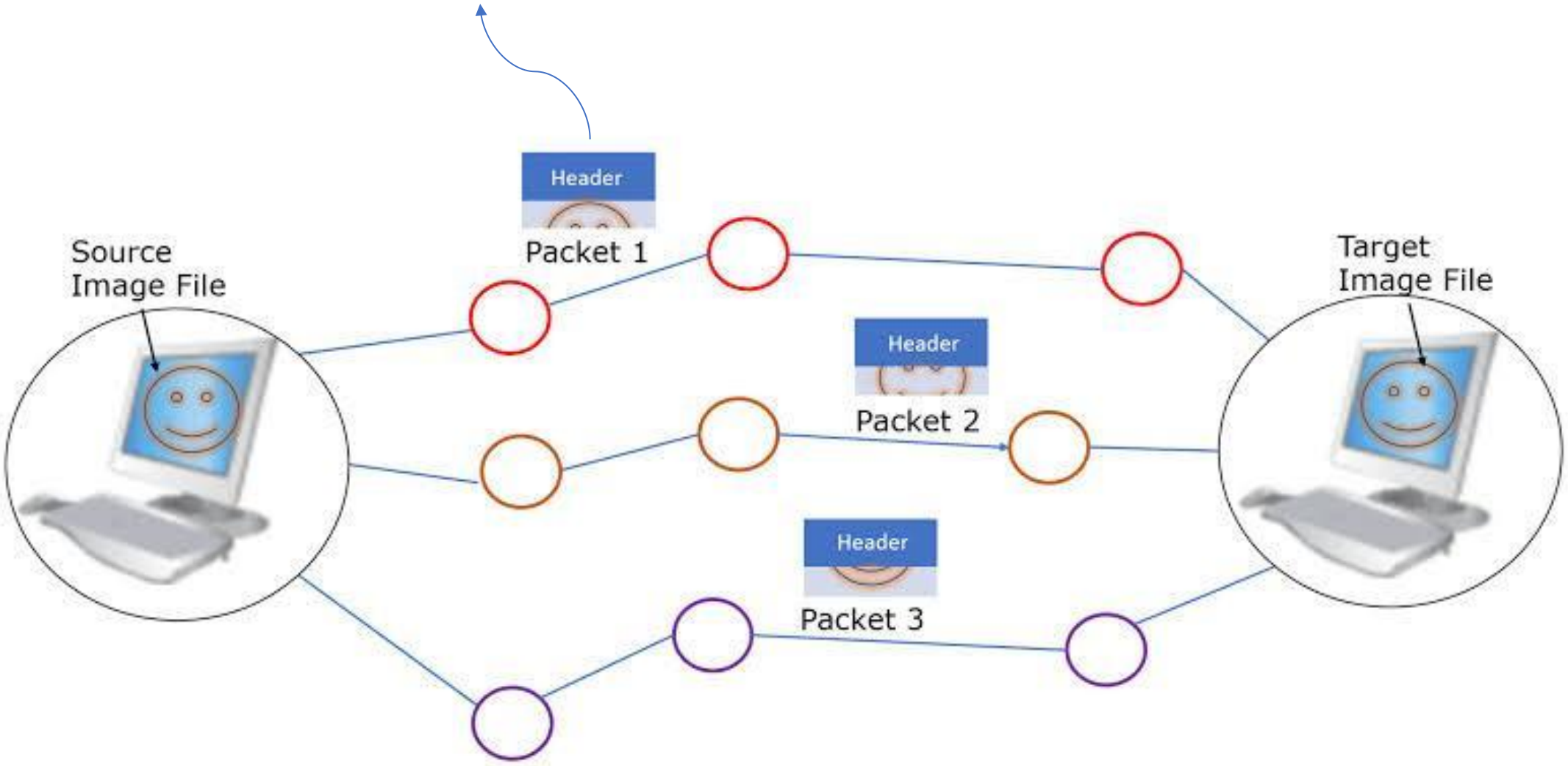


BANDWIDTH

- Maximum data transfer rate of a network.
- Measured in bits per second (bps).

PACKETS

- Source and destination IP addresses
- Sequence numbers (Labelling)
- Time to live (TTL)



CLIENT SIDE LANGUAGES

HTML

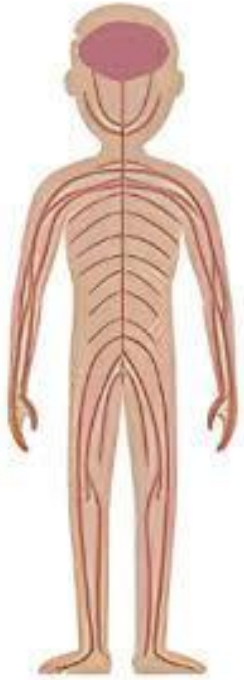
HTML the Skeleton

CSS

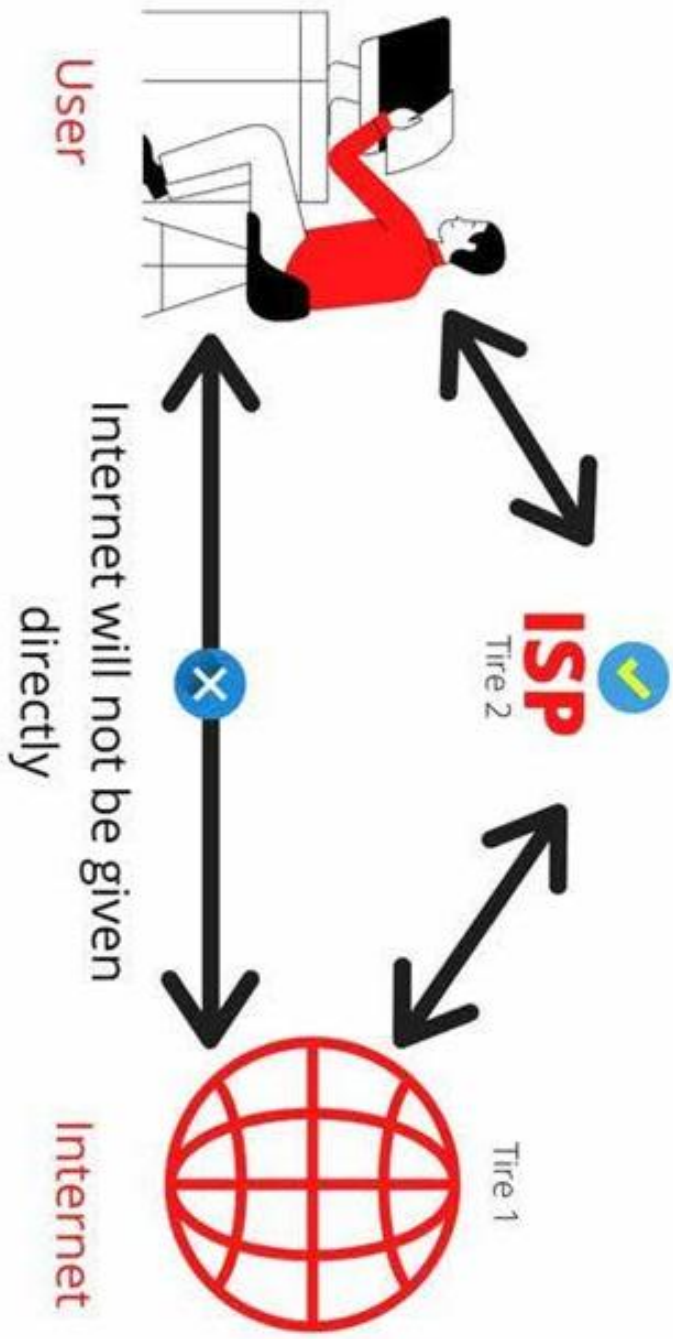
CSS the Skin

JS

Javascript the Brain



INTERNET SERVICE PROVIDER

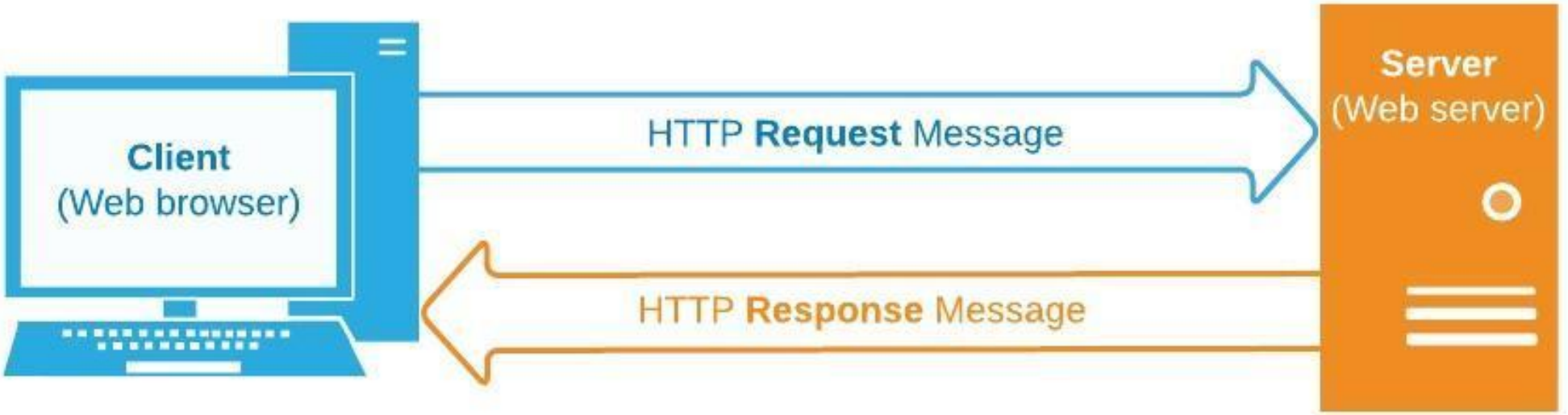


vodafone airtel !dea

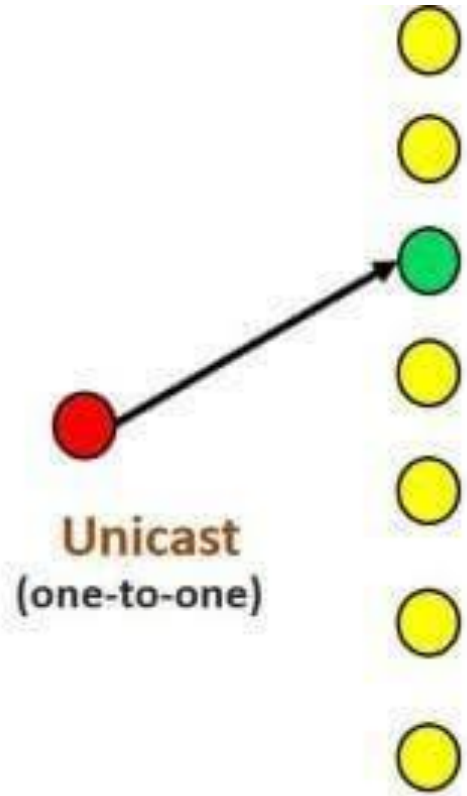
RELIANCE AIRCEL

Jio BSNL Connecting India TATA DOCOMO

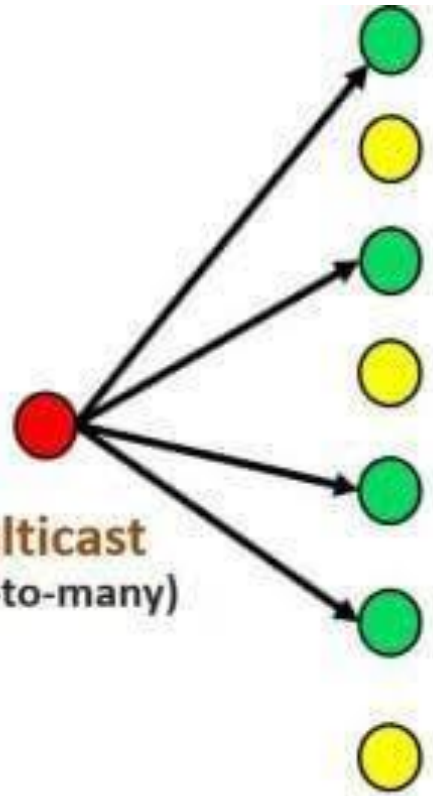
HTTP REQUEST/RESPONSE



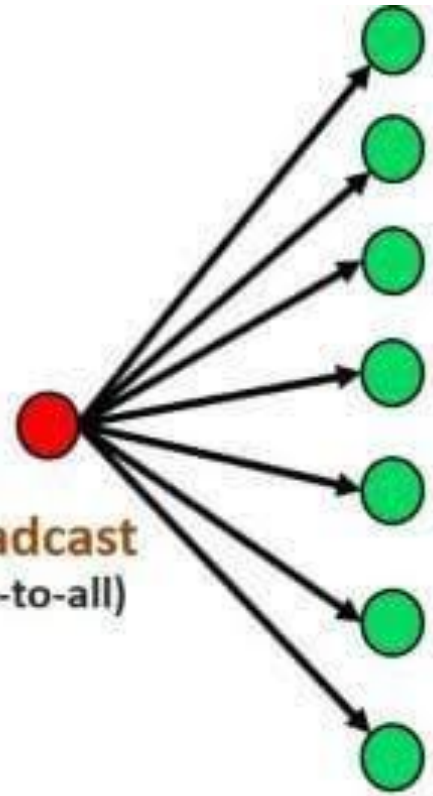
CASTING TECHNIQUES



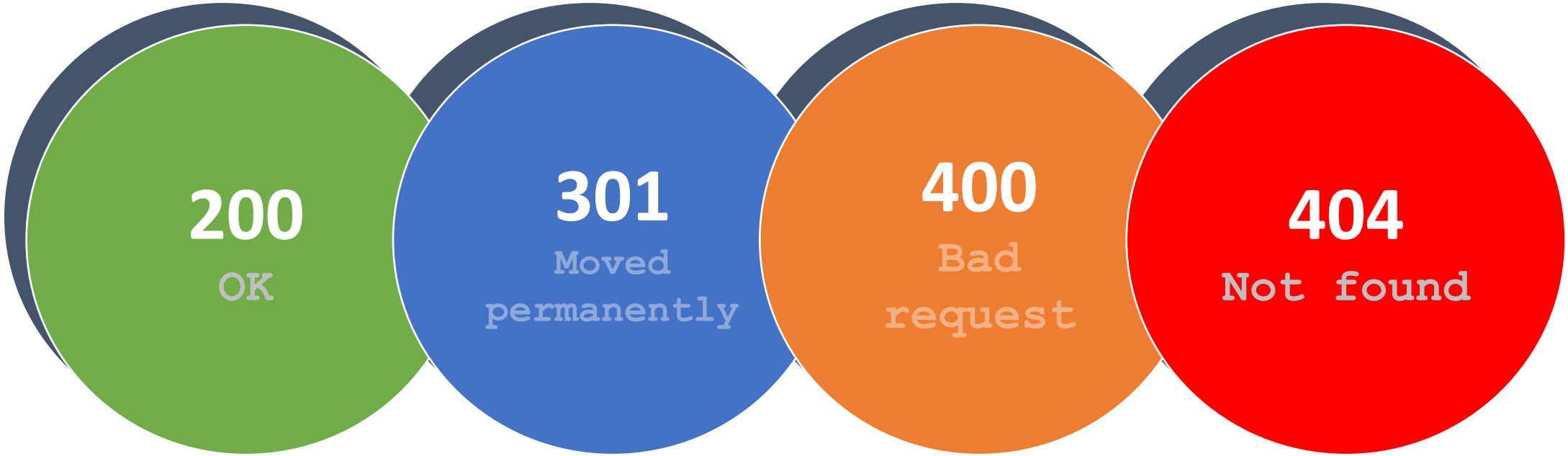
Unicast
(one-to-one)



Multicast
(one-to-many)



Broadcast
(one-to-all)

RESPONSIVE WEB DESIGN

STATUS CODE