Introduction to web designing
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What is internet ?

- It is a network of networks.

- It is a web of computers laid around the globe.

- The internet is a network of thousands of computer networks.

- Every network and every computer in these networks exchange information according to certain rules called protocols.

- These different computers and different networks are united with the common thread of two protocols, i.e., Internet Protocol (IP), and Transmission Control Protocol (TCP)
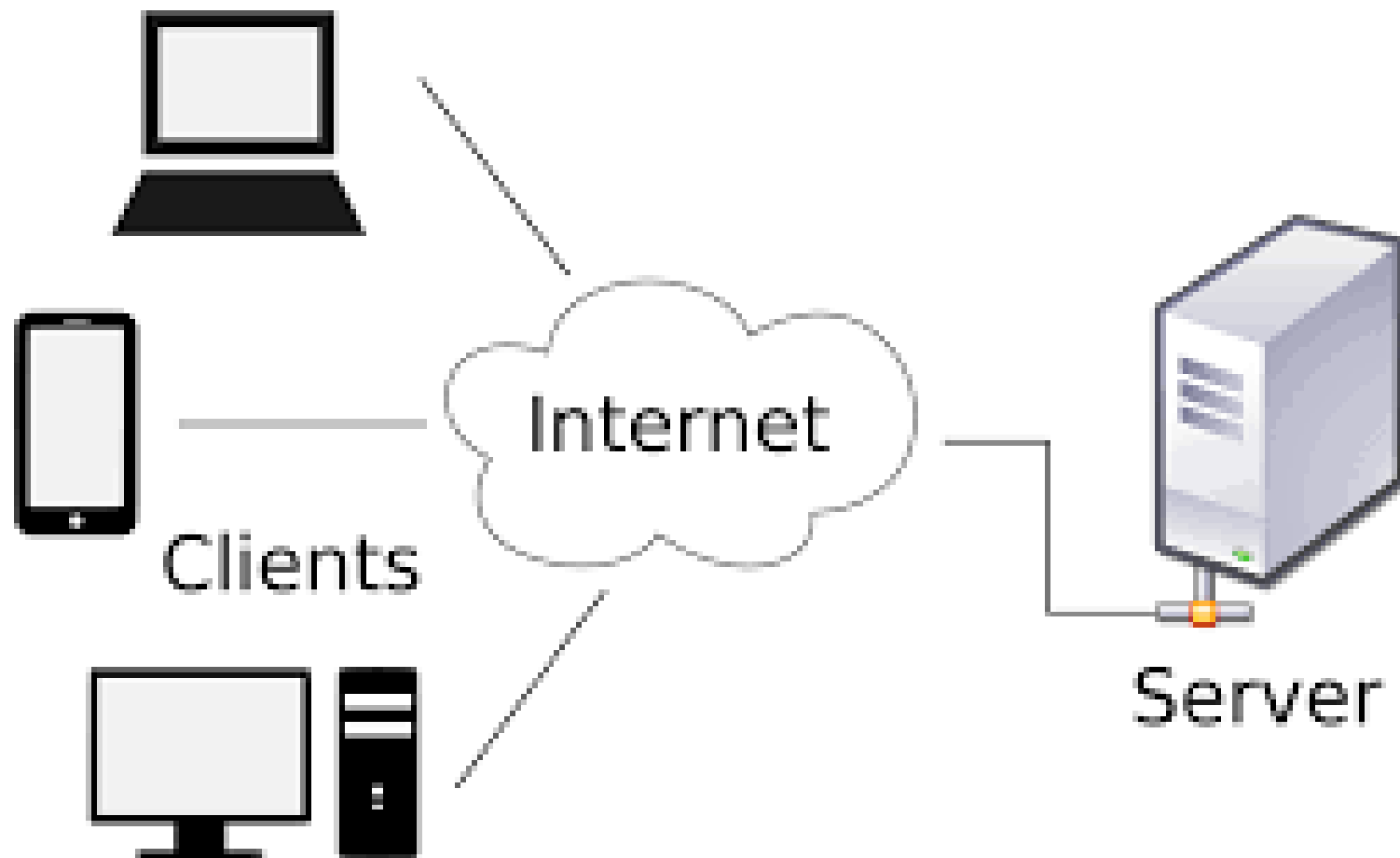
Applications of Internet

- Exchange messages using e-mail (Electronic mail).
- Transfer files as well as software
- Browse through information on any topic on web.
- Communicate in real time (chat) with others connected to the Internet.
- Search databases of government, individuals and organisations.
- Read news available from leading news groups.
- Send and receive animation and picture files from distant places.
- Set up a site with information about your company's products and services.

Dial-up connection using an ISP as a gateway to the Internet

WWW

- **The WWW is the part of the Internet that contains websites and webpages.**
- **It was invented by Tim Berners-Lee in 1989 at CERN, Geneva, Switzerland.**
- **It is basically a system of Internet servers that supports specially formatted documents.**
  - The documents are formatted in a markup language called HTML.
- **The WWW is essentially a huge client-server system with millions of servers distributed worldwide.**
- **You can refer a document in WWW by a means of reference called Uniform Resource Locator (URL)**

Client - Server Model

How website works ?

1) **You surf WWW with the help of web browser.**

   1) Example : Google Chrome

2) **Web browser is a client software that requests for URL (that you have typed in the URL bar) to the server with the help of HTTP protocol**

3) **The request is routed to the right server with the help of the Internet routers.**

4) **When the server gets a request, it sends the document back to the web browser client.**

5) **The information is then displayed on your web browser.**

How website works ?

- **Type the URL for a website (www.google.com) into your web browser.**
- **Your browser attempts to make a connection to a web server.**
- **The web server receives the request.**
- **The website's home page is downloaded from the web server to your PC.**
- **The web page is displayed by your web browser, and the connection between the the server and your browser is closed.**

Web page

- **A web page is an electronic document written in a computer language called HTML.**

- **Each web page has a unique address, called a URL that identifies its location on the network.**
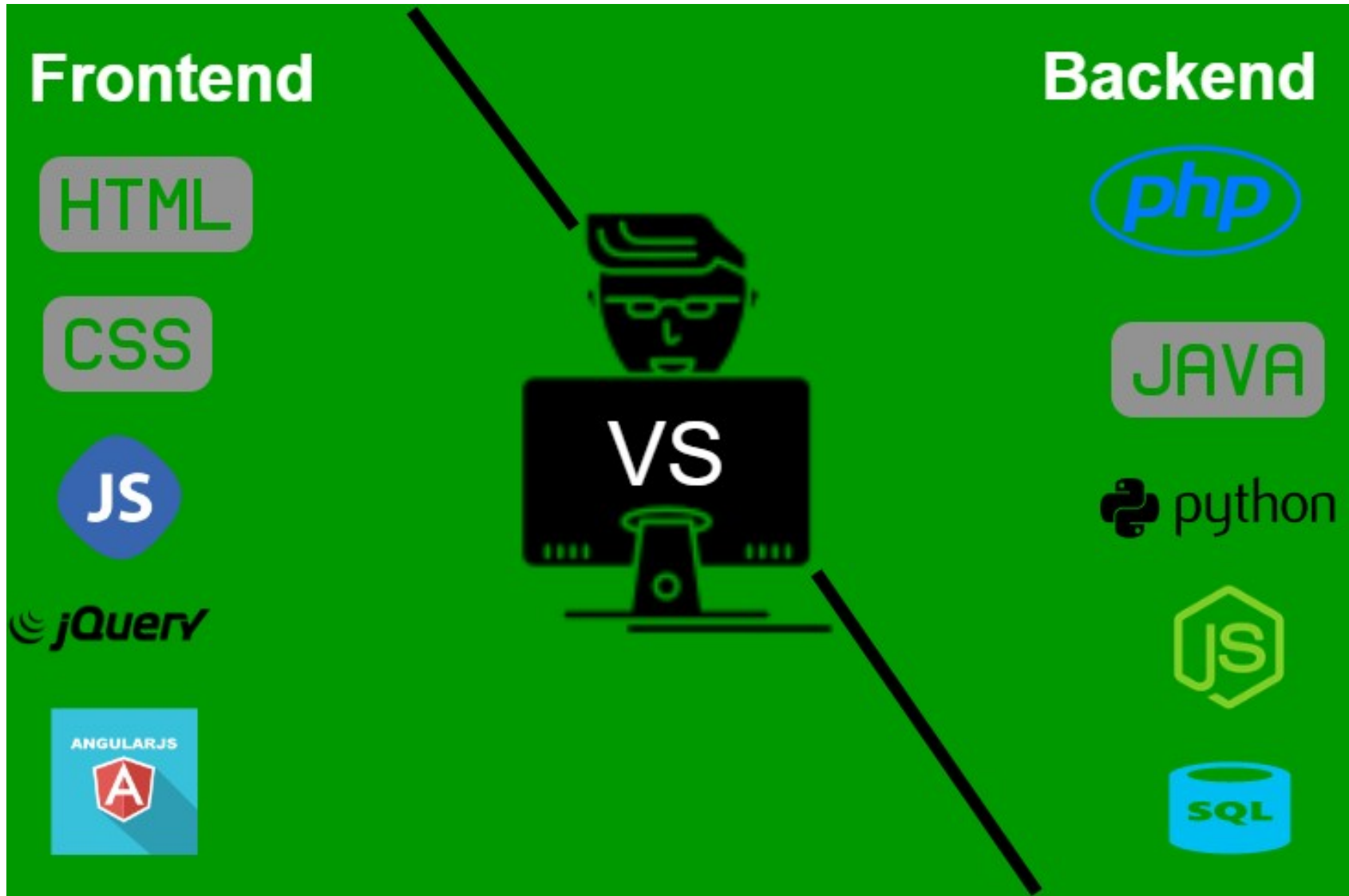
Website

- **A website is a collection of web pages associated with a particular person, business, government, school and organization.**

- **Websites are stored on a web server, a special computer that makes web pages available for people on web browsers.**

- **A website has one or more related web pages.**

- **Web pages on a website are linked together through a system of hyperlinks to jump between them by clicking on the link.**

Front-end Vs Back-end

Static website and Dynamic Website

- **A static website contains web pages with fixed content.**

- **Each web page is coded in HTML and displays same information to every visitor.**

- **Dynamic websites contain web pages that are generated in real-time.**

- **These web pages contain scripting code , such as PHP or ASP.**

Requirements for developing a website

1)Domain Name

2)Website Hosting

3)Contents of a website (Website design)

Domain names

- **Each domain name ends with an identifier that tells you what type of website it is.**

- **Domain Name System (DNS) converts a name (www.google.com) into a corresponding numeric IP address.**

.com	Commercial business
.edu	Educational Institues
.gov	Government entities
.net	Internet service providers
.mil	Military sites
.org	Organisations that do not fit in any other category

Website Hosting

- **The space on the server where a website is kept is known as website hosting space.**

Thank You !!

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