

Web Development

Class 1

Web Development refers to building, creating and maintaining Websites and Applications.

A **Website or Web Application** is a collection of web pages and related content that is identified by a common domain name and published on a server.

The Internet

The **Internet** is the backbone of the Web, the technical infrastructure that makes the Web possible. At its most basic, the Internet is a large network of computers which communicate all together.

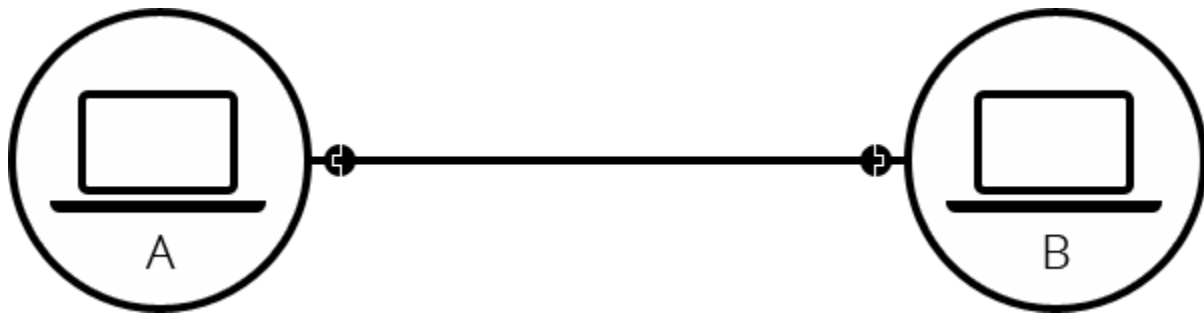


Image-1: Internet

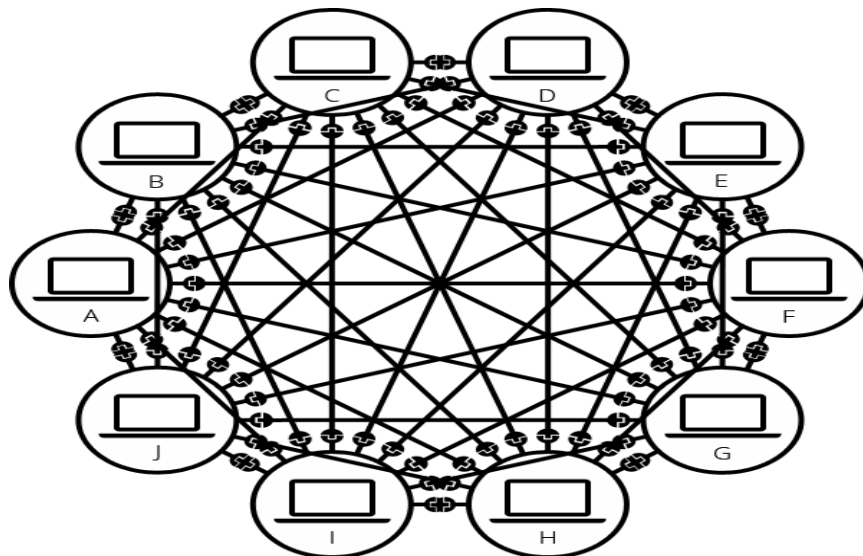


Image - 2: Internet

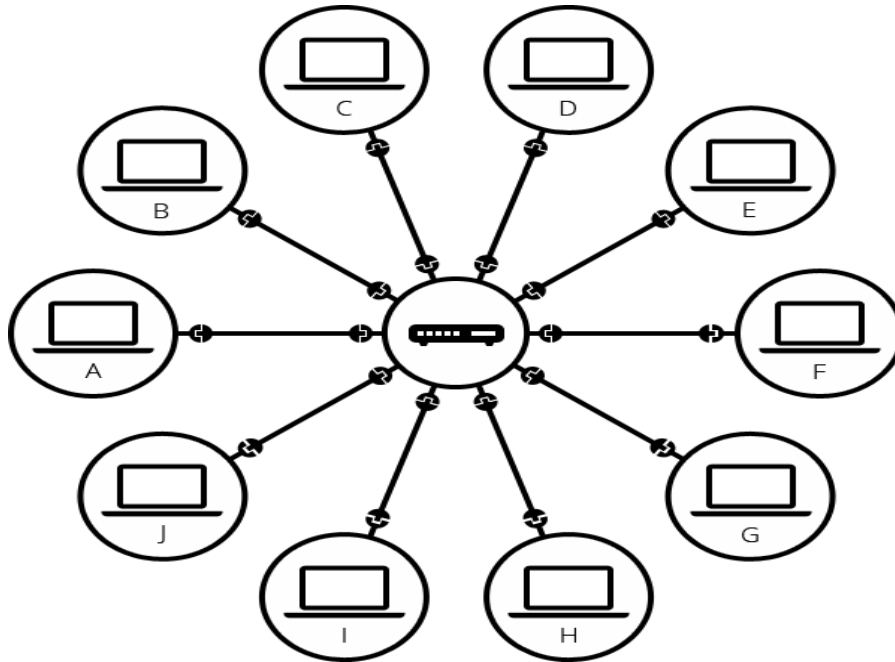


Image - 3: Internet

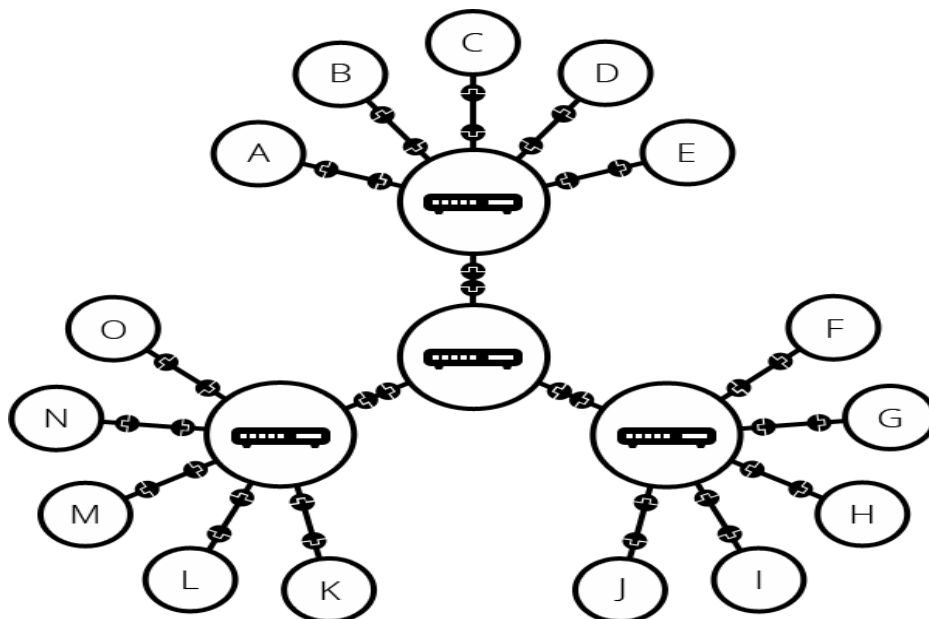


Image - 4: Internet

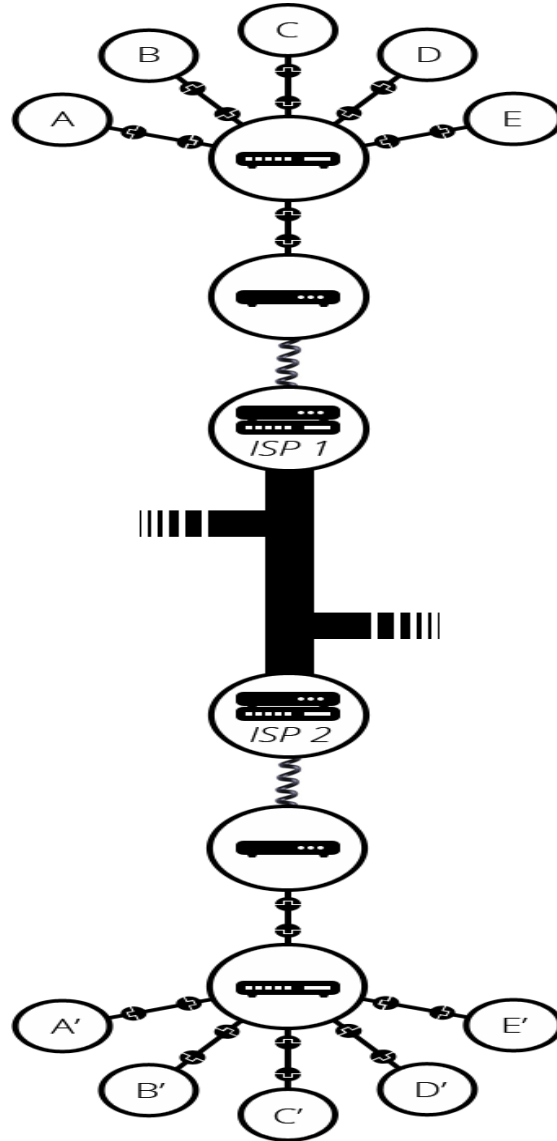


Image - 5: Internet

Browsers

The browser is a rendering engine. Its job is to download any requested web page and render it in a way that's understandable by humans.

How a Website works

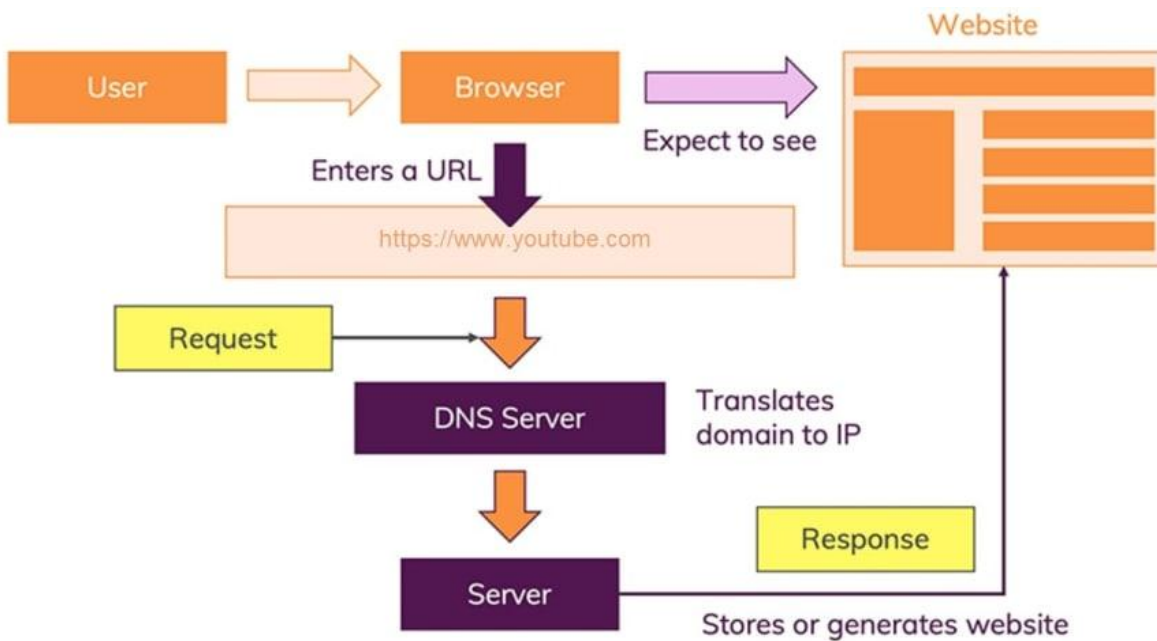


Image - 6 Website working flow

Domain & Hosting

A **domain name** refers to the URL people type in a web browser's address bar to access any site. In other words, domain names offer a convenient way for people to access websites. Without it, people would have to use a numerical label assigned to every website and server on the internet, also known as an **IP address**.

Web hosting services allow you to publish the website on the internet. In other words, hosting providers will rent a portion of their web server to store your website's files and data.

How a Website is built

- Editor
 - VS Code
 - Atom
 - Sublime Text etc.
- Client Side Development
 - Html
 - Css
 - JavaScript

- Server Side Development
 - Java
 - Python
 - .Net
 - PHP etc.
- Database
 - mySql
 - PostgreSQL
 - MongoDB etc.

Two types of Websites

- Static Website
- Dynamic Website

Html

HyperText Markup Language

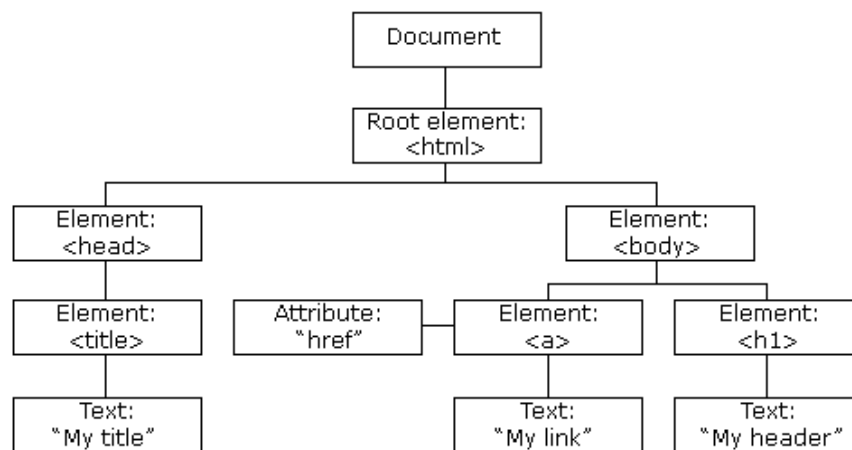


Image - 7: Html tree diagram

Css

Cascading Style Sheets

JavaScript

Class 2

Github: Github is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere.

Favicon: A favicon also known as a shortcut icon, tab icon, URI icon or bookmark icon, is an icon that shows on the tab of the browser to distinguish and identify any tab from other tabs on the browser.