**Internet** - sometimes simply called the net, is a worldwide system of interconnected computer networks and electronic devices that communicate with each other using an established set of protocols.  
  
**Intranet** - intranet is a kind of private network, so no one from the outside world can access this network. More Privacy. does not leak data to the outside world.

In **1983**, the **ARPANET** began using the Transmission Control Protocol/Internet Protocol (TCP/IP)

***COMPONENTS of the internet:***

**CLIENTS or ENDPOINT DEVICES** - These are the multitude of interconnected components or clients that ----- These can include computers, smartphones, tablets, routers, web servers and IoT devices.  
**Servers** - are the computers that provide services or share stored resources with the client

devices.  
**Internet protocols (IP)** - To retrieve the required data on the internet, a set of guidelines and procedures known as protocols must be adhered to as they guarantee accurate and effective data transmission.

***Components of the Web:***

- Uniform Resource Locator (**URL**): URL serves as a system for resources on the web.  
- **HTTP** specifies communication of browser and server.  
- **HTML** defines the structure, organization and content of a web page.

**History of the WWW** - It is a project created, by Tim Berner Lee in 1989,

**Web browser** - is used to access web pages.

**IP addresses** - are used to identify devices on the internet.

**Routers** - forward data packets between computer networks.

**Domain name system (DNS)** - converts human-readable domain names, such as www.example.com, into machine-readable IP addresses.  
**Frontend Development** - The part of a website that the user interacts directlyis termed as front end.

**Backend Development** - is the server side of a website.

(**AJAX**) - Ajax is an acronym for Asynchronous JavaScript and XML.

**JavaScript** - is a famous scripting language used to create magic on the sites

**DATABASE** - is a structured collection of data that is stored electronically and accessed via a web application.

**Relational Database** - stores data in tables, similar to a spreadsheet, where each table has rows and columns. (**MySQL**)

**NoSQL Database** - stores data in a flexible, non-tabular format, unlike traditional relational databases. (**MongoDB**)

**Data Format** - Format of data is used by web applications to communicate with each other.

- **XML** Extensible Markup Language

- **JSON** or JavaScript Object Notation

- **API** abbreviation for Application Programming Interface

**Web protocols** - are set of rules followed by everyone communicating over the web. (http,tcp/ip)  
**Web designing** - is the process of creating websites.  
  
**<a>** - tag defines a hyperlink, which is used to link from one page to another.  
**<img> -** tag is used to embed an image in web pages by linking them.  
**Tables** - allow you to arrange data into rows and columns on a web page, making it easy to display information like schedules, statistics, or other structured data in a clear format.