- Web Server
- Web Site
- Web Page
 - Static Page
 - Dynamic Page

- Web Application

- Web Site comprises of all static content.
- Web Application comprises of both static and dynamic content.

- Blog [Web-Log]

- Blogs are like journals on Internet.
- Blog publishes everything into one page.
- Usually published by individual users and updated periodically.

Ex: blogger.com, wix.com etc.

- Vlog [Video-Log]

Ex: YouTube channels

- Micro Blog

 Multiple users can publish their personal information on to single page.

Ex: Twitter

- Wiki

- o Wiki mean "Quick". It is an hawain term.
- Wiki allows any anonymous user to edit its content.
 Ex: WikiPedia [Quick reference for Encyclopaedia],
 Google Maps, IMDB

- Podcasting

 Podcast allows developers and users to upload media content [audio/video] on to servers. So that the content can be broadcasted on to other devices.

Ex: YouTube, iTunes, Windows Media Player

- URL & URI

- Uniform Resource Locator
 - It is a virtual path generated by web server in order to access resources from a website or application.

ex: http://localhost/amazon/products.html

- Uniform Resource Identifier
 - It is a named location in the resource.

Fx:

http://localhost/amazon/products.html#mobil
es -> URI

- Browser

 Browser is a software tool uses to access the resource from any website or application.

Ex: Chrome, Edge, FireFox, Safari etc.

- Web Debugger

- It is a software tool used by developers in web development to track the performance and issues in web page.
- Every browser will have a web debugger which you can invoke by using "F12" function key.

Ex: Fiddler, Postman, etc.

Setup Environment of Designing Web Application

- Download and Install any Package Manager

- o Package Manager is a software tool used by web developers to install various libraries required for their development.
- o Some of the popular Package Manager tools
 - NPM
 - Yarn
 - RubyGems
 - NuGet etc.
- o Install NPM (Node Package Manager) on your PC
 - Visit https://nodejs.org/en/download/
 - Download the ".msi" file if you are using Windows OS
 - Install from ".msi"
- o After installing open your command prompt and test

C:\> node -v [node version]

C:\> npm -v [npm version]

Note: You must have Node.JS version 10x above

Ex: Installing Packages

- Open the physical path of your web application in command prompt.

C:\Amazon>

- Install by using the following syntax C:\Amazon> npm install PackageName C:\Amazon> npm install bootstrap/jquery/angular etc..

Note: If you are not sure about the package names and their versions then you can get help from official website.

https://www.npmjs.com/

- The packages library is maintained in a special folder called "node_modules"
- The packages and their versions related information is present in a special file "package-lock.json"
- Download and Install any Code Editor
 - Code Editor provides an IDE [Integrated Development Environment]
 - It provides an environment for developer, which allows to build, debug, test and deploy applications.
 - The popular Code Editors
 - Visual Studio Code
 - Sublime

- Brackets
- Web Strom
- Eclipse etc.
- Install "Visual Studio Code" Editor
 - Visit https://code.visualstudio.com/
 - Download and install for your OS.
- Open Visual Studio Code
- Go to "Extensions" and install the following extensions
 - Live Server [It starts a server to run & test your application][ritwickdey.liveserver]
 - Vscode-Icons

Create a new Project

- Open file explorer and create a new folder in your local drive
 - C:\Fullstack
- Open Visual Studio Code
- Go to File Menu Open Folder
- Choose "Fullstack" folder and open

Designing Web Page

- Web Page is a Hyper Text Document that provides an UI for client to interact with the resources in our web site.
- The term **Hyper** is derived from Greek terminology, which means "beyond".
- The Hypertext documents are designed by using "Markup" language.
- Markup is derived from a computer terminology called "Marking up".
- Markup is a technique used to prepare our content to present exactly as per requirement.
- A markup language is used to prepare our content to present on **browser**.
- A markup language is used for presentation. It is a presentation language.
- The early markup languages used for internet were "GML & SGML".
- Generic Markup Language.
- Standard Generic Markup Language.
- These languages were used for presentation on a browser called "Mosaic".
- In early 1990's "Time Berners Lee" introduced HTML.

- Hypertext Markup Language.
- HTML is super set to GML and SGML.
- 1995 IETF [Internet Engineering Task Force]
 developed HTML version HTML 2.0
- **1997** W3C [World Wide Web Consortium] developed **HTML 3.2** [Jan-1997]
- Dec-1997 W3C developed HTML 4.0
- 2004 WHATWG [Web Hypertext Application Technology Workgroup] started contributing for HTML along with W3C.
- 2014 W3C developed HTML 5
- **HTML** is a markup language used to **design** both static and dynamic pages.
- HTML pages will have extension ".html or .htm"