Web designing & developement

Lotus Educare Academy Navi mumbai

Atul Kumar Singh

- Website/web app developer & trainer
- 3+ years of web development experience
- Expertise:-1.)Javascript (vanilla & node.js)
 - 2.)mySql
 - 3.)MongoDb
 - 4.)Angular
 - 5.)Php
 - 6.)Laravel
 - 7.)Html & css
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Course Outline

- html
- CSS
- vanilla javascript
- mysql
- nodejs (using express.js)
- github
- final project

Pre Requesites

- Visual studio code /atom (https://code.visualstudio.com/)
- Mysql (xampp/mysql workbench) (https://dev.mysql.com/downloads/installer/)
- Git bash (https://git-scm.com/downloads)
- Node.js (https://nodejs.org/en/download/)
- Github account (https://github.com/)
- Heroku account (https://heroku.com/)

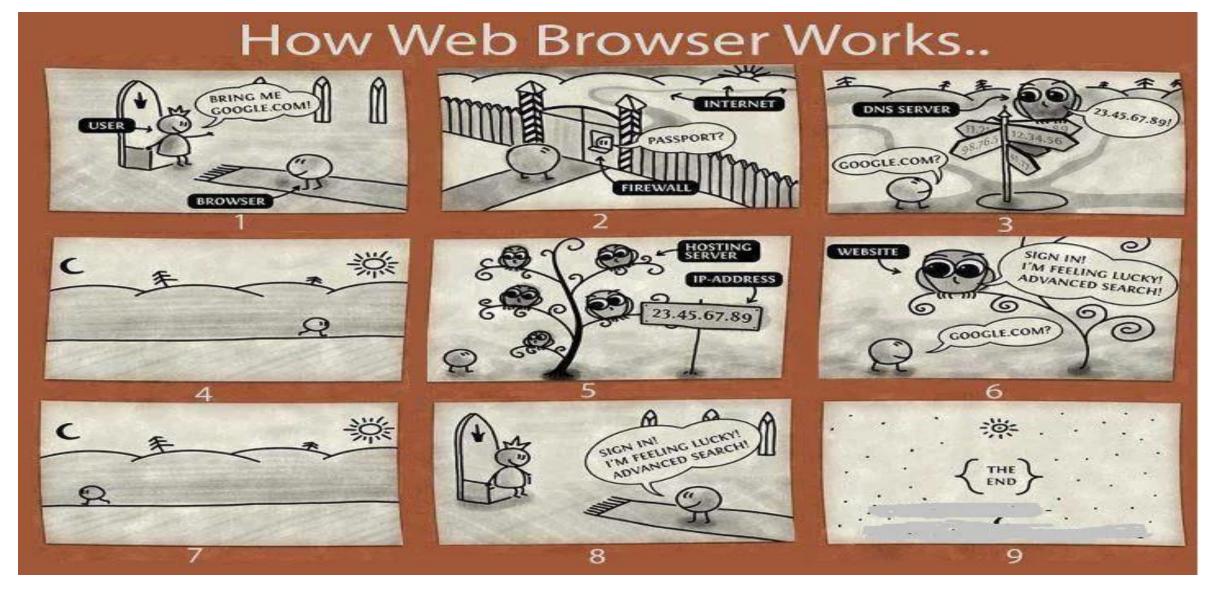
System requirements

- Ram :- 2gb/4gb/8gb/16gb/32gb
- Operating system :-linux/windows/mac

When are we going to learn?

- Week 1 :- Html & css
- Week 2:- Vanilla javascript & Mysql
- Week 3:- Node.js
- Week 4:- Github & Project

How browser works?



Some basic terms of online world

- Url:-Uniform resource locator
- Http:-Hyper text transfer protocol
- Https:- Hyper text transfer protocol secure
- IP:- Internet Protocol
- WWW:- World wide web

Html & Css

What is Html? How to use it?

What is Html?

- It's an acronym for Hyper Text Markup Language
- Used for creating webpages/documents
- Building blocks of Web
- Consists of tags
- Latest Version is Html5

Creating an Html file

- Html file does not require a server
- Files must end with .html extension
- Html pages run in browser
- index.html is the root/home page of a website

Tag Syntax

- Syntax:-<tagname>Content</tagname>
- elements tags surrounded by angle brackets
- Normally comes in pairs (i.e. start tag and end tag)
- End tag is usually the same but with a forward slash
- Some tags close themselves (ex. Image tag,break tag)

Html page structure

```
• <html>
 <head>
 <title></title>
 </head>
  <body>
    <h1>heading tag</h1>
    Paragraph tag
    Paragraph tag
   </body>
 </html>
```

Basic Page Structure

```
<!DOCTYPE Html>
<html>
  <head>
   <title>Page Title</title>
 </head>
 <body>
   <h1>Heading tag</h1>
    My First Paragraph
 </body>
</html
```

Elements of html

- 2 Types of elements:- Inline & Block
- Inline
 - Do not start a new line
 - Take only necessary widthEx:- ,<h2>,etc
- Block
 - Starts a new line
 - Take full width available
 Ex:- <div>,<section>,

Tag attributes

- All tags have attributes
- Provide information for the elements/tags
- placed within the starting of the tag

Css

- It is an acronym for Cascading Style Sheets
- Used to modify html tags default functions
- Can be used for in 3 ways:-Inline,Internal and External
- Not an programming language
- Can be used with Sass/Less to provide logic
- File should be saved with .css extension when used externally

Selectors

- Component of html used to select tags, elements of html pages
- Can be used i.e. tag and elements together to modify specific component
- Syntax :element/tag :{attribute:value}

Color

- Tag/element attribute used to set color .
- Can be used in 4 ways :-
 - 1.)Colors
 - 2.)Html5 colors
 - 3.)Hexadecimal
 - 4.)RGB

Background

- used for changing background of elements/tags
- image or color can be added to background

Border

- Attribute used to define the border of the elements/tags
- can of values:-
- 1.)dotted
- 2.)dashed
- 3.)solid
- 4.)double
- 5.)groove
- 6.)ridge
- 7.)inset
- 8.)outset
- 9.)none
- 10.)hidden

Margin

- attribute to create space around an element/tag
- can be mentioned indiviuvally and together
- can be mentioned in px,vh,vw,%.em as measuring unit
- can be mentioned together in this format in order to define each margin seperately: margin: top right bottom left

Width

- Describes the width of an element/tag
- Does not relate with margin, padding, borders
- Note * :- max and min width overrides the width of the element/tags

Height

- Defines the height of an element/tag
- Does not relate to padding ,margin,borders.
- If max-height and min-height is defined it does overrides the default height
- If height is set to some numeric values and it does not fit within the specified height it will overflow, however we can define overflow using overflow property

Padding

- It is property through which you generate space around the content inside of any defined border
- can be specified in three ways :-
 - 1.)Length:-px,em,etc
 - 2.) %:-specifies a padding of % of the width of containing element
- 3.) Inherit:-specifies the padding that should be inherited from the parent element
- Can be used indiviuvally and also together

Font

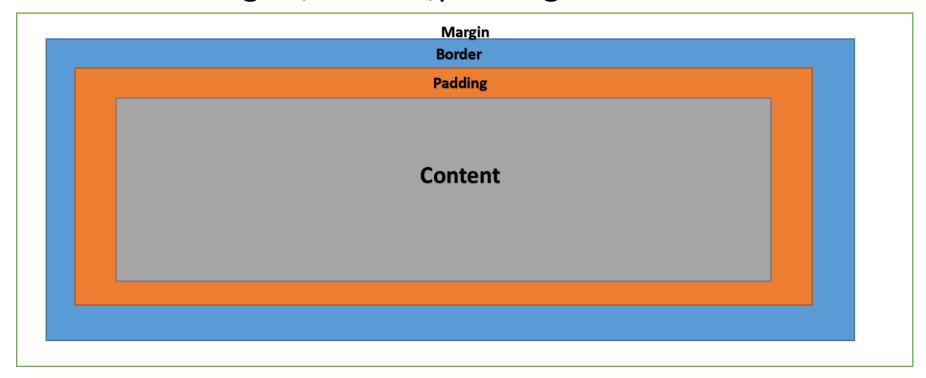
- Used to decorate text in paragraph, heading an website
- Can be used to convert text in upppercase as well as into lowercase
- Can be used to bold and italic text also
- Can be used to change the standard text font family
- Also can be used to change color of the text in webpages also

Display

- Can be used to display in specific postion inside other html tags
- Can have the following properties:-
 - 1.)Inline
 - 2.)Block
 - 3.)Inline -block
 - 4.)Flex
 - 5.)Grid
 - 6.)None

Box Model

- All html elements can be considerd as boxes.
- In css box model is used when taking about design and layout.
- consists of margins, borders, padding and the actual content.



Form

- Element which can be used to collect input from the user in order to submit to the server.
- Can consist for different type of input
- Can consist of more than one input
- Should contain a button in order to submit the form
- Also can be used to fetch the information from the source