Target to learn: HTML, CSS, **Java script**, Bootstrap, Typescript, **Angular/ ReactJS**.

We use above technologies for creating UI (User Interface) pages.

UI – User Interface – Which ever user experiences that page is called as UI page / Browser page.





**Validation?** – Checking user entered details (user name, password, email, phone number etc..) at server side or client side is called as Validation.



Server or Client always perform validation on user given input data.

Response is two types🡪 Valid response / Error response.

Browser**?** 🡪 HTML page rendering/ displaying location. It internally has engine to execute UI technologies.



Browser:

How many browsers are there in the market? 🡪 So many browsers are available in the market.

What are they? Tell me 4 browsers?

Different companies created different browsers. Based on **browsing speed, memory usage** we use different browser.



Which technologies can a browser understand? **HTML, CSS, Javascript**.

A browser can execute/run only **HTML, CSS, Javascript** files.



Then what about other UI technologies? How they run in browser? ->

For example, Angular or ReactJs how they run in browser? 🡪 First, we convert/compile/transpile the angular/reactjs into JavaScript code then we run in browser.





What is meant by Extension 🡪 It is File format.

How to create these files? 🡺 Let/Right Arrow mark.

**<anyName>.extension**

<anyName>.html, <anyName>.css, <anyName>.js

Extension? -> Which tells which type/format of the file we are going to create.

Eg: for TEXT file we use extension as **.txt**

for WORD file we use extension as **.docx**

for PDF file we use extension as **.pdf**

for JAVA file we use extension as **.java**

for IMAGES file we use extension as **.jpeg, .png, .gif….**

for HTML file we use extension as **.html / .htm**

for CSS file we use extension as **.css**

for Javascript file we use extension as **.js**

**etc…………………………..**

**Abbreviations:**

**HTML 🡪 Hyper Text Markup Language.**

**CSS 🡪 Cascading Style Sheet.**

**HTML**

<https://www.w3schools.com/>

Browser engine will run/execute content on html page.

Content means? 🡪 Code we written.

**In HTML page we can write HTML code, CSS code and JS code combinedly.**



How many ways we can write HTML tags/CSS code/JS code inside html page?

What is html tag/element? Why we write tag?

How to write html tag?

|  |
| --- |
| **<tagName>** --> opening tag  content  **</tagName>** --> closing tag |

Tags we always write in NESTED format. Writing tags inside another tags. Tags inside another tags.

Tag is also called as ELEMENT.

HTML stands for Hyper Text Markup Language.

HTML is the standard markup language for creating Web pages / Websites.

HTML describes the structure of a Web page.

HTML consists of a series of elements.

HTML elements tell the browser how to display the content.

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Page Title</title>  </head>  <body>  <h1>My First Heading</h1>  <p>My first paragraph.</p>  </body>  </html> |

Root tag / parent tag.

Child tags.

The **<!DOCTYPE html>** declaration defines that this document is an HTML5 document

To convert our html page to HTML 5 version html page.

The <!DOCTYPE html> declaration defines that this document is an HTML5 document

The <html> element is the root element of an HTML page

The <head> element contains **meta information** about the HTML page 🡪 Data about data-Meta data.

The <title> element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

**The <body> element defines the document's body,** and is a container for all the visible contents, such as headings,

paragraphs, images, hyperlinks, tables, lists, etc.

What ever the content we have written inside <title> tag will be displayed inside **window tab location**.

What ever the content we have written inside <body> tag will be displayed inside **document location**.

**Brower objects:**

document\*\*\*\*\*\* 🡪 White screen inside browser is called as document.

window\*\* 🡪 Overall browser is called as window.

Navigation 🡪 URL bar location is called as navigation.

Etc…

The <h1> element defines a large heading

The <p> element defines a paragraph

<br> 🡪 Self closing