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 🡪 Valid response / Error response.

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



Browser:

How many browsers are there in the market? Number of browsers. What are they? Below list.

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.





Extension 🡪 File format.

How to create these files?

**<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.



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