**Django**

* Python framework to develop a web application
* Uses MVT (Model View Template) architecture

pip install django

django-admin startproject broadway .

python manage.py runserver

**Web Application**

* **Presentation Layer(UI/UX)**

***HTML*** – to define contents of a page

***CSS*** – to apply style to a page

***Bootstrap***– CSS library to make responsive pages

***JavaScript*** – to add user events to a page (to make a page interactive)

***JQuery*** – JavaScript library

***AJAX*** – Technique to load data to a particular component without reloading full page

***React JS, Vue JS, React Native, Flutter***

* **Business layer**
* **Database**

**HTML**

* Hypertext Markup Language
* Used to create web pages
* defines contents of a web page
* **tag** based language (<html></html>)
* tag has its properties called **attributes**
* it has tree like document structure called DOM (Document Object Model)

**CSS - Selectors**

|  |  |
| --- | --- |
| Tag Selector | **p{} h1{} ul{}** |
| Class Selector | **.class\_name {}** |
| Id Selector | **#id\_name {}** |
| Descendant selector | **#id\_name p {} nav ul li{}** |
| Child Selector | **ul > li {} .div\_class > p {}** |
| Pseudo Element  Selector | **h1::first-letter{} p::first-line{}**  **h1::after{} h1::before{}** |
| Pseudo Class Selector | **a:hover{} a:active{} a:visited{} a:link{}** |
| Sibling selector | **div ~ p {}** |
| Adjacent sibling selector | **div + p {}** |
| nth child selector | **div:nth-child(3)** |
| Universal selector | **\*** |
| Multiple Element Sel | **P, h1, #id\_name {}** |

Text Properties

Box Properties

Floating & Positioning

* float: left/right
* clear: left/right/both
* position: absolute/fixed/relative/sticky/static
* display: none/block/inline/grid/flex

Animation & Styles

* transform: rotate/skew/scale
* animation

animation-name:

animation-duration:

* transition