**Django**

* A python framework to develop web application
* MVT (Model View Template) architecture

pip install django

django-admin startproject project\_name .

python manage.py runserver

**HTML (Hyper Text Markup Language)**

* Used to create web pages
* Defines contents of a web page not their design
* Tag based language, tag has their properties called Attributes

**CSS (Cascading Style Sheet)**

* Used to design layouts of web pages
* Selectors, properties and their values
* Can be applied by using:
  + Inline CSS: style as attribute
  + Embedded CSS: style as tag
  + External CSS: style as file

**Properties**

1. Text/Font properties
2. List properties

* list-style
* list-style-type
* list-style-image
* list-style-position

1. Box properties

* background
* height
* width
* border
* margin
* padding

1. Floating & positioning

* float & clear
* position
* display

1. Styling

* Opacity/visibility
* transition
* animation
* transform

**Selectors**

|  |  |
| --- | --- |
| Universal | \*{} |
| Tag | h1{} p{} |
| Class | .class\_name{} |
| Id | #id\_name{} |
| Multiple element | h1, p, .class\_name{} |
| Descendant | #id\_name ul li{} div p {} |
| Child | #id\_name > ul{} ul > li {} |
| Sibling | p ~ h1{} |
| Adjacent Sibling | p + h1{} |
| Attribute | input[type="submit"]{} a[href="home.html"]{} |
| Nth child | ul li:nth-child(2){} |
| Pseudo Element | h1::before{} h1::after{}  h1::first-letter{} p::first-line{} |
| Pseudo Class | a:hover{} a:active{} a:visited{} a:link{} |

Media Query: for responsive design

Bootstrap: CSS library for responsive design

**JavaScript**

<script>

// JS code goes here….

</script>

<script src=”file.js”></script>

1. Variables & Datatype
2. Operators
3. Conditional Statements
   1. if….else if… else
   2. switch
4. Looping Statements
   1. for(){}
   2. while{}
   3. foreach
5. Array
6. Function
7. JSON

**JQuery – a JavaScript Library**

**Database**

Stores data in the form of tables.

MySQL Server, MSSQL Server, Oracle, SQLITE

SQL: Structured Query Language

No SQL Database: MongoDB, POSTGRESQL

XAMPP-> Apache MariaBD PHP Perl

CRUD

* CREATE DATABASE db\_name;
* USE db\_name;
* CREATE TABLE users(id int PRIMARY KEY AUTO\_INCREMENT,

name varchar(100), dob date,

gender ENUM('Male', 'Female', 'Other'),

mobile varchar(20), email varchar(100),

username varchar(10) UNIQUE KEY, password varchar(50),

status boolean, balance double,

comment mediumtext)

* INSERT INTO users (name, gender, email, mobile, username, password, balance, comment) VALUES ('Pradeep Chapagain', 'Male', 'pradeep@email.com', '9841112233', 'pradeep', 'pradeep123', 100000, 'Comment text goes here.....')

**OR**

INSERT INTO users VALUES ('', 'Bigyan Dhakal', '2000-01-01', 'Male', '9841112233', 'bigyan@email.com', 'pradeep', 'bigyan123', 1, 100000, 'Comment text goes here.....')