Phase 4

28-10-2021

Front end technologies

http://[www.google.com](http://www.google.com) URL

req(http/https)-------🡪

Client Server

🡨-------res(http/https)------

HTML/HTML5

CSS/CSS3

JavaScript

JEE

Asp.net

Php

Python

CGI

Node JS

Etc

Html : Hyper text mark up language which help to create the web application. That application may be static or dynamic.

Basic html

Hyper link

Image tags

List

Table tag

Form tag

It is use to display the content.

CSS : Cascading Style sheet : it is use to apply formatting style for web page.

It is use to display the content in different styles.

JavaScript : JavaScript was object based interpreter scripting language which help to create the dynamic web page as well as to do validation on client side.

Now a days we can do validation in JavaScript using two ways

1. Using HTML5 features
2. Using JavaScript

MEAN Stack Mongo DB / MySQL Express JS Like spring Rest Angular Node JS

MERN stack Mongo DB / MySQL Express JS Like spring Rest React Node JS

Web Application

VSCode

Html is not a structure

We can run the program in html without writing any tags.

Html 4 version

<!DOCTYPE html public url=”path.dtd”/>

Document type definition : inside this file they written the rules to html tags. means root tag, child tag, mandatory or optional tags.

In html 5 they removed path

<!doctype html> : instruction to browser we are writing html 5 code.

P

Heading tags : h1 to h6

attribute : we can descries the properties of tags using attributes.

Every tags contains one or more attributes.

Attribute we have to use in opening tags in the form of key value pairs

<tagName attributeName=”value” attributeName=’value’>

</tagName>

Link tag

List tags

Unorder list

Order list

Table Tags

Forms

HTML4

<input type="text/password/radio/checkbox/button/reset/submit/file"/>

HTML5

<input type="email/number/url/search/date/color"/> etc

Application.html

First name

Last name

Gender

Email

Hobbies

City Drop Down

Address

Search

Submit Reset

<input type=”text”/>

<input type=”password”/>

<input type=”email”/>

<input type=”radio” name = “gg” value=”male”/>Male

Checkbox

Dropdown

CSS :

Cascading style sheet

Without CSS : if we want to apply any formatting style we have to depends upon the other tags or there is not others tags to apply formatting style.

We have to write our contents and formatting style in one place.

Using CSS we can make separation of concern( We can write separate contents and formatting style).

CSS provide lot of pre-defined properties we can apply good look and feel for the application.

Types of CSS

1. Inline CSS
2. Internal CSS or embedded CSS
3. External CSS

Inline CSS :

<tagName style=”property:value;property:value;”></tagName>

Div : Division tag : it contains more than one other tags.

Like p, b, i or h1 to h6 or other tags.

Internal CSS or Embedded CSS

We have to use style tag in between head tag.

Syntax

Selector { property : value}

Types of selector

1. Universal selector : \* all tags
2. Specific selector : tagName : p, div, h1 to h6 etc.
3. Multi specific selector : tagName,tagName,tagName etc
4. Class selector :
5. Local class selector : tagName.className{property:value}
6. Global class selector : .className {property:value,property:value}
7. Id selector : #idName{property:value;property:value;}

Class selector Vs Id selector

<p class=”abc” id=”p1”>First Tag</p>

<p class=”xyz” id=”p2”>Second Tag</p>

<p class=”abc” id=”p2”>Third Tag</p>

<p class=”xyz” id=”p4”>Fourth Tag</p>

Class : group of tags is known as class.

Id selector is use to make the unique ness between two tags if tag may be same type or different type.