Phase 4

Day 1 :

05-15-2023

HTML, CSS, JavaScript(ES5 and ES6), Bootstrap, React JS and Mongo DB

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

req(http/https)---🡪

Client Server

🡨--res(http/https)------ HTML/HTML5

HTML : Hyper text mark up language. Which provide lot of pre defined tags or elements which help to develop the web page.

Using html we can develop static as well as dynamic web page. Dynamic web page we can create from html4/html5.

VSCode

<tagName> opening tag

</tagName> closing tag

If we write anything but file extension must be .html or .htm then it is consider as html code.

In html 4 version

<!doctype html public url=[www.asfafafasd.dtd](http://www.asfafafasd.dtd)/>

Document type definition file contains the rules for the html page

What is the root tag name, that tag contains how many child tags, tag mandatory or optional.

In html 5 they remove these rules they introduce new tags to make html dynamic.

<!doctype HTML>

CSS : Cascading Style Sheet

Attribute : Attribute is known as properties of tag. We can use attribute in the form of key-value pairs and attribute must be use in opening tag.

<tagName key1=”value1” key2=”value2”></tagName>

CSS provided lot of pre defined properties which help to apply formatting style for web page.

Using CSS we can make separation of concern.

Means actual content and formatting style we can write separately.

Types of CSS

1. Inline CSS

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

1. Internal or embedded CSS

In this type of css

We need to use css rules inside style tag and that tag must be in between head tag

<style type=”text/css”>

Selector {property:value};

</style>

1. Universal selector : \*
2. Specific selector : tagName{property:value}
3. Local Class selector : tagName.className
4. Global class selector .className
5. Id selector : #idname

Class selector Vs Id selector

Class attribute : group of tags which have same name or different name we need to add class.

Id attribute : using id attribute we can make uniqueness between two tag which have same name or different name.

1. External CSS

Global css rules

We need to create external css file with any name with extension .css and write more or more rules with different types of selector and this file we need to include in every html page with help of link tag.

Box Model :

Day 2 :

05-16-2023

Bootstrap : Bootstrap is an open source front – end web css framework. Bootstrap is first css framework which help to create responsive web application.

Mobile, tab, desktop etc.

If we develop any responsive web application the application alignment arrange according device with and height.

We will see first responsive web page using html5 features.

Bootstrap provided external CSS library or files which contains set of pre defined css classes with respective all html tags like div, p, h1 to h6, form, table etc.

If we want to apply bootstrap features to our application

1. We need to download external bootstrap file and add in our application (offline)
2. We need to link bootstrap url (CDN) path.
3. We can download using node js.

Button classes

Btn-success

Btn-primary

Btn-secondary

Etc

Container classes

container and container-fluid : these two classes generally we use with div tag.

Alert : Alert is use to display contextual feedback message on web page.

Table classes :

Bootstrap Grid layout :

Bootstrap grid layout helps to arrange the component in html page in table format ie using row and columns.

Using grid layout only we can arrange component alignment base upon device width.

In Bootstrap grid layout each row by default divided into 12 columns.

Device size width

<576 px extra small

>=576 px small

>=768 px medium

>=992 large

>=1200 extra large

>=1400 double extra large