Agenda

- Form tag
- GET vs POST method
- Header, Footer, section, article, aside, nav Tags
- CSS
- Selector
- CSS Box Model
- CSS Display

GET Method

- Values will be sent using Request Head
- Values will be appended on url (visible)
- Restriction on maximum size of data to be passed
- · Only ascii values can be sent using GET
- URL can be bookmarked with the values
- Files can NOT sent using GET

POST Method

- Values will be sent using Request Body
- Values will be invisible
- There is no restriction on size of data
- Any value of any type (binary) can be sent by using POST
- URL can be bookmarked without the values
- Files can be using POST

article

- The
 - HTML element represents a self-contained composition in a document, page, application, or site, which is intended to be independently distributable or reusable.
- Examples include a forum post, a magazine or newspaper article, or a blog entry, a product card, a user-submitted comment, an interactive widget or gadget, or any other independent item of content.

aside

- The
 - HTML element represents a portion of a document whose content is only indirectly related to the document's main content.
- Asides are frequently presented as sidebars or call-out boxes.

header

 The element can define a global site header, described as a banner in the accessibility tree.

- It usually includes a logo, company name, search feature, and possibly the global navigation or a slogan.
- It is generally located at the top of the page.

footer

- The
 - HTML element represents a footer for its nearest ancestor sectioning content or sectioning root element.
- It typically contains information about the author of the section, copyright data or links to related documents.

nav

- The
 - HTML element represents a section of a page whose purpose is to provide navigation links, either within the current document or to other documents.
- Common examples of navigation sections are menus, tables of contents, and indexes.
- It's not necessary for all links to be contained in a element.
- is intended only for a major block of navigation links

section

• The

HTML element represents a generic standalone section of a document, which doesn't have a more specific semantic element to represent it.

CSS

- CSS stands for Cascading Style Sheets.
- It makes an HTML website presentable.
- It adds style to various HTML elements.
- It helps you to define how the elements should look, where they should be placed and whether they should be displayed or not.
- Types of CSS
- 1. Inline
- 2. Internal
- 3. External

Inline CSS

- Use style attribute of an element to decorate it
- Simplest way to add decoration
- It is very difficult to manage because it can target only one element at a time
- It is discouraged to use inline CSS
- E.g. test

Internal CSS

- Use style tag in header section
- It can target multiple elements at a time in the given page
- It can target only one page at a time
- E.g.

```
p {
color: red;
}
```

External CSS

- Use external CSS file to hold all the rules
- Link the external CSS with link tag in header section
- E.g.

```
<link rel="stylesheet" href="mystyles.css">
```

Terminology

- Rule or Ruleset:
 - Pair of CSS selector and declaration block
- Declaration block:
 - Collection of declarations
- Declaration:
 - Pair of CSS property and its value separated by colon(and terminated by semi-colon(
- Selector:
 - Used to select one or more elements from the page

Units

- px: pixel (Picture Element)
- deg: degree
- s: Seconds
- %: with respect to its parent

CSS Selector

- used to select one or more elements from given page
- · Types of selector
- 1. Element selector
 - Also called as type selector
 - o Targets only similar type of element

o E.g.: only paragraph will have red color

```
p { color: red; }
```

- 2. Multiple element selector (,)
 - Multiple type selector
 - Select multiple type of elements
 - o E.g.: paragraph, h2 and h3 will have color green

```
p, h2, h3 { color: green; }
```

- 3. ID selector (#)
 - Select only element matching the given Id
 - o Id can appear in a page only once
 - E.g.:

```
/* select only paragraph having id para1 */
p#para1 { color:red; }

/* select any element having id para1 */
#para1 { color: green; }
```

- 4. Class selector (.)
 - Select only element matching the given class
 - ° E.g.

```
/* select only paragraph having class para1 */
p.para1 { color:red; }

/* select any element having class para1 */
.para1 { color: green; }
```

- 5. Descendant selector (white-space)
 - Used to select child elements at any level
 - ° E.g.

```
/* paragraph at any level inside div will have color red */
div p { color: red; }
```

- 6. Child selector (>)
 - Used to select child elements which are at first level

- Used to select only direct child elements
- o E.g.

```
/* paragraph at first level (direct) inside div will have color red */
div > p { color: red; }
```

- 7. Attribute selector ([])
 - Used to select an element based on the given attribute value
 - o E.g.

```
/* input of type submit will have color red */
input[type="submit"] { color: red; }
```

- 8. Universal selector (*)
 - Used to select all elements
 - o E.g.

```
/* all elements will have font family as arial */
* { font-family: arial; }
```

- 9. Pseudo selector (
 - Used to apply CSS rules in specific condition
 - The conditions are also known as pseudo classes
 - E.g. hover, nth-child, active, focus, visited
 - ° E.g.

```
/* when mouse gets over on div, the color will change to red */
div:hover { color: red; }
```

CSS Box Model

- Every element in html is rendered as a box (rectangle)
- Their are 3 Properties
 - 1. Border
 - 2. Padding
 - 3. Margin

CSS Position

- Used to control the position
- Values are

- 1. static:
 - o by default static is used
 - o ignores top, bottom, left and right
- 2. relative:
 - o element is aligned with respective with top, bottom, left and right
- 3. absolute:
 - o It is absolute with the current displayed window and moves up as window scrolls
- 4. fixed:
 - It is fixed at the position. Even if window scrolls the element will not move from the position

CSS Display

- Used to control the display behavior of an element
- Values are
- 1. block:
 - o considers width and height and displays elements on new line
- 2. inline:
 - o ignores the width and height and displays in same line
- 3. none:
 - hides the element
- 4. inline-block:
 - o considers width and height and displays elements on same line

CSS Float

- The float property in CSS is used to position elements to the left or right of a container, allowing text or other elements to wrap around them.
- values
 - 1. right:
 - 2. left:

CSS Flex

- Flexbox (Flexible Box Layout) is a powerful, one-dimensional layout system in CSS designed for organizing elements in rows or columns.
- It simplifies alignment, spacing, and distribution of elements, making it ideal for responsive design.
- To use Flexbox, apply display: flex; to a container.
- This makes all child elements (flex items) automatically adjust according to the rules of Flexbox.
- Flex Container and Flex Items
- 1. Flex Container: The parent element that holds flex items.
- 2. Flex Items: The child elements inside the container.
- Below properties apply to the container (display: flex;).

1. flex-direction

1. row: Default. Items are placed left to right.

- 2. row-reverse: Items are placed right to left.
- 3. column: Items are placed top to bottom.
- 4. column-reverse: Items are placed bottom to top.

2. justify-content

- 1. flex-start: Default. Items align to the start (left).
- 2. flex-end: Items align to the end (right).
- 3. center: Items are centered.
- 4. space-between: First item at start, last item at end, space between them.

CSS3 Advanced Properties

- border-radius
 - Used to add rounded corner
- Shadow
 - Text shadow
 - Box shadow
- Gradients
 - Linear
 - Radial
- column-counts
 - Used to divide an element in number of columns
- CSS Animations
 - Transition
 - Transform
 - scale
 - rotate
 - translate

