

# Module I: Web Essentials

## Basic HTML Methods, Domain name and Web Hosting

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- ✓ Identify HTML tags, domain name registration, and hierarchy.

### Session Activity

- ✓ Creating a basic HTML page and analyzing its structure
- ✓ Exploring various HTML tags and attributes
- ✓ Explore Domain Name service process.
- ✓ Explore Web Hosting registration process and configuration

### Keywords

*HTTP, DNS, Web Hosting, Domain Name, Get, Post.*



Html used predefined tags and attributes to tell the browser how to display content, html is a case insensitive language.

There are generally two types of tags in HTML:

- ✓ **Paired Tags:** These tags come in pairs. That is they have both opening(< >) and closing(</ >) tags.

Example: `<h1>` tags are individuals of html structure, we have to open and close any tag with a forward slash like this `</h1>`

- ✓ **Empty Tags:** These tags do not require to be closed.

Example: `<br />` , `<hr />`, `<img />`, `<input />`

## EXPLORE

Extra Relevant Links as per the topic

- ✓ **<!DOCTYPE html>**: This tag is used to tell the HTML version. This currently tells that the version is HTML 5.0
- ✓ **<html> </html>** : <html> is a root element of html. It's a biggest and main element in complete html language, all the tags, elements and attributes enclosed in it <html lang="en"> here en represents English language.
- ✓ **<head>**: Head tag contains metadata, title, page CSS etc. Data stored in the <head> tag is not displayed to the user, it is just written for reference purposes and as a watermark of the owner.
  - <title>** = to store website name or content to be displayed.
  - <link>** = To add/ link css( cascading style sheet) file.
  - <meta>** =
    1. to store data about website, organisation, creator/ owner
    2. for responsive website via attributes
    3. to tell compatibility of html with browser
  - <script>** = to add javascript file.

## EXPLORE

<https://www.geeksforgeeks.org/html-course-structure-of-an-html-document/>

- ✓ **<body>**: A body tag is used to enclose all the data which a web page has from texts to links. All the content that you see rendered in the browser is contained within this element

Following tags and elements used in the body.

- 1 . <h1> ,<h2> ,<h3> to <h6>
2. <p>
3. <div> and <span>
4. <b>, <i> and<u>
5. <li>,<ul>and<ol>.
6. <img> , <audio> , <video> and<iframe>
7. <table> <th> , <thead>and<tr>.
8. <form>
9. <label> and <input> others.....

## EXPLORE

<https://www.geeksforgeeks.org/html-introduction/>

## HTML Meta and its Function

- ✓ The `<meta>` tag defines metadata about an HTML document. Metadata is data (information) about data.
- ✓ `<meta>` tags always go inside the `<head>` element, and are typically used to specify character set, page description, keywords, author of the document, and viewport settings.
- ✓ Metadata will not be displayed on the page, but is machine parsable.
- ✓ Metadata is used by browsers (how to display content or reload page), search engines (keywords), and other web services.
- ✓ There is a method to let web designers take control over the viewport (the user's visible area of a web page), through the `<meta>` tag (See "Setting The Viewport" example below).

### EXPLORE

[https://www.w3schools.com/tags/tag\\_meta.asp](https://www.w3schools.com/tags/tag_meta.asp)



```
<!DOCTYPE html>
<!-- Defines types of documents : Html 5.0 -->

<html lang="en">
  <!-- defines languages of content : English -->

  <head>
    <!-- Information about website and creator -->

    <meta charset="UTF-8">
      <!-- Defines the compatibility of version with browser -->

    <meta name="author" content="Tripti">
    <meta name="Linkedin profile" content="www.linkedin.com/Mr.X_123" >
    <!-- To give information about author or owner -->

    <meta name="keywords" content="HTML,CSS">
    <meta name="description " content="overview of html Structure">
    <!-- to explain about website in few words -->

    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Setting the viewport to make your website look good on all devices:-->
```

```
    <title>htmlstructre</title>
    <!-- Name of website or content to display -->

    <h1> HTML Structure </h1>
    <hr/>

  </head>

  <body>
    <!-- Main content of website -->
    <p>Html used predefined tags and attributes to tell the browser how to display
    content,
      html is a case insensitive language. </p>
  </body>
</html>
```

```
<!DOCTYPE html>
<!-- Defines types of documents : Html 5.0 -->

<html lang="en">
  <!-- DEfines languages of content : English -->

  <head>
    <!-- Information about website and creator -->

    <meta charset="UTF-8">
    <!-- Defines the compatibility of version with browser -->

    <meta name="author" content="Tripti">
    <!-- To give information about author or owner -->

    <meta name="keywords" content="HTML,CSS">
    <meta name="description " content="overview of html Strucutre">
    <!-- to explain about website in few words -->

    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Setting the viewport to make your website look good on all devices:-->

    <title>htmlstructre</title>
    <!-- Name of website or content to display -->

    <h1> HTML Strucutre </h1>
    <hr/>

  </head>
```



## Practical Task for Lab

- ✓ Creating a basic HTML page and analyzing its structure.
- ✓ Exploring and use various HTML tags and attributes
  1. Body Attributes
  2. images attribute
  3. Anchor tag and its attributes



## Reference

1. <https://www.geeksforgeeks.org/html-course-structure-of-an-html-document/>
2. <https://www.geeksforgeeks.org/html-introduction/>
3. [https://www.w3schools.com/tags/tag\\_meta.asp](https://www.w3schools.com/tags/tag_meta.asp)





# Thank You

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