

FULL STACK



Automation Testing

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Introduction to HTML



A Day in the Life of a Full Stack Developer

Mark is working in an organization as an Automation Testing Engineer.

He has been asked to develop a basic website using HTML with features such as form and list.

To achieve this, he will learn the structure of HTML, basic tags, formatting tags, lists, attributes and forms, along with additional features.

These will help him to find a solution for the given scenario.



Learning Objectives

By the end of this lesson, you will be able to:

- 👁 Understand the basics of HTML
- 👁 Know the structure of HTML document
- 👁 Use the various attributes in HTML
- 👁 Get and post the data in HTML form

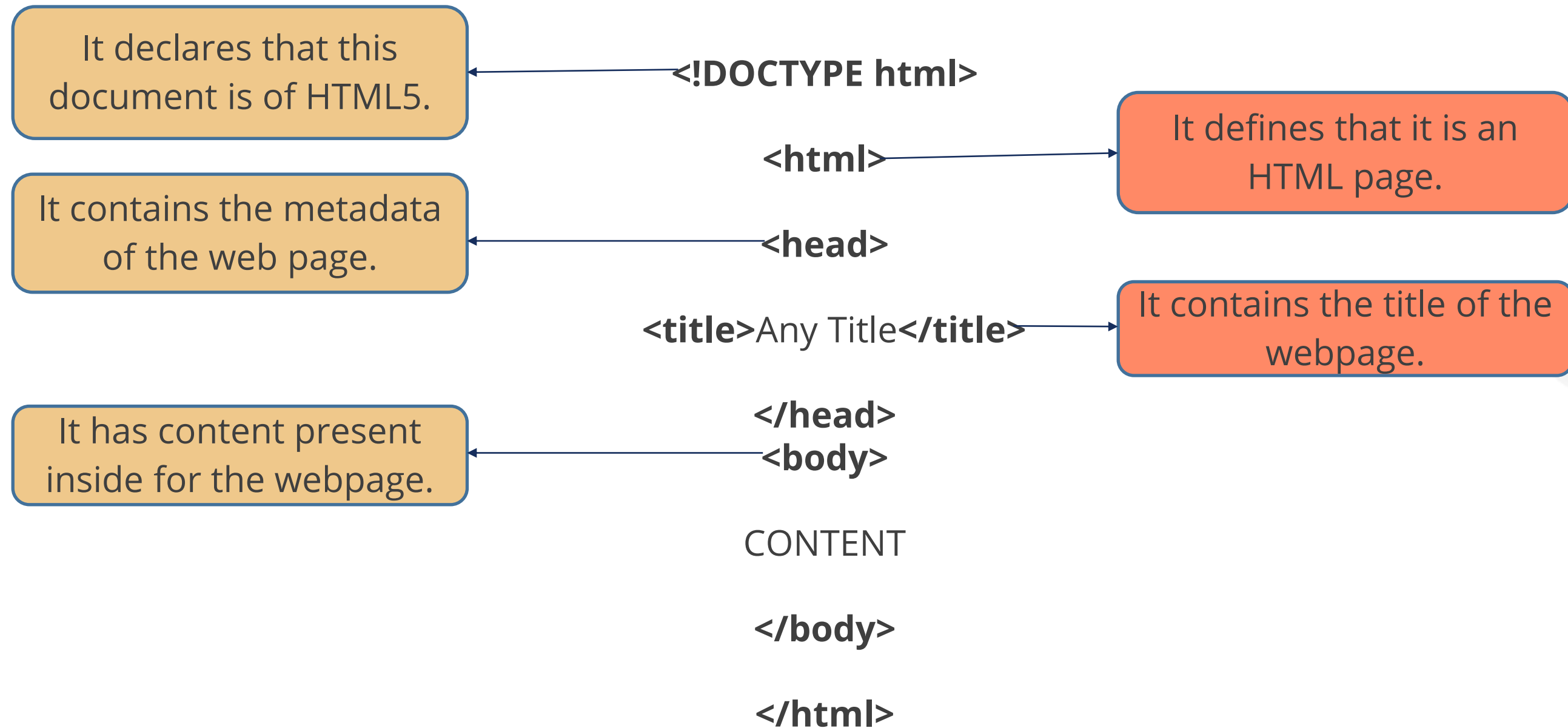


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Structure of Website

Structure of Website

The basic structure of HTML document is as follows:



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Basic HTML Tag

Basic HTML Tag: Heading

Heading tags `<h></h>` are used to define the heading. Heading tags are there from h1 to h6, arranged in descending order according to its text heaviness.

```
<h1>This is heading 1</h1>
```

```
<h2>This is heading 2</h2>
```

```
<h3>This is heading 3</h3>
```

```
-
```

```
-
```

```
<h6>This is heading 6</h6>
```



Basic HTML Tag: Paragraph

In HTML, paragraphs are written inside `<p></p>` tag.

```
<p>This is a paragraph tag.</p>
```



Basic HTML Tag: Div

<div></div> tag is referred to as division tag, which helps in containerization of contents.

```
<div>  
  <h2>Heading</h2>  
  <p>Paragraph</p>  
</div>
```



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Formatting Tag

Formatting Tag

Some of the basic formatting tags are:

Bold tag is used for highlighting the statement written in it.

<i></i>

Italic tag is used to italicize the content written in it.

<q></q>

Quote tag is used to quote any short sentence written in it.

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HTML `` Tag

HTML Tag

The tag is used to include an image on the webpage.

```
<body>  
  
<img src = "img1_html.jpg" alt = "HTML Demo" height = "150"  
width = "140" />  
  
</body>
```

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HTML Marquee Tag

HTML Marquee Tag

The Marquee tags `<marquee>` and `</marquee>` are used to create scrollable texts and images within a web page.



HTML Marquee Tag: Scroll Up

The following is the syntax for using the Marquee Scroll Up:

```
<marquee width="60%" direction="up" height="100px">  
This is a sample scrolling text that has scrolls in the upper  
direction.  
</marquee>
```

HTML Marquee Tag: Scroll Down

The following is the syntax for using the Marquee Scroll Down:

```
<marquee width="60%" direction="down" height="100px">  
This is a sample scrolling text that has scrolls texts to  
down.  
</marquee>
```

HTML Marquee Tag: Scroll Left to Right

The following is the syntax for using the Marquee Scroll Left to Right:

```
<marquee width="60%" direction="right" height="100px">  
This is a sample scrolling text that has scrolls texts to  
right.  
</marquee>
```

HTML Marquee Tag: Scroll Right to Left

The following is the syntax for using the Marquee Scroll Right to Left:

```
<marquee width="60%" direction="left" height="100px">  
This is a sample scrolling text that has scrolls texts to  
left.  
</marquee>
```


HTML Marquee Tag: Scrolling Speed

The following is the syntax for using the Marquee Scrolling Speed:

```
<marquee behavior="scroll" direction="up"
scrollamount="1">Slow Scrolling</marquee>

<marquee behavior="scroll" direction="left"
scrollamount="20">Fast Scrolling</marquee>
```

Tables in HTML

Tables in HTML

HTML tables are used to arrange information like images, text, and links into rows and columns of cells.



Tables in HTML: Table Rows

The table row tags `<tr>` and `</tr>` are used to create rows of a table.

```
<table>
  <tr>
    <td>Emil</td>
    <td>Tobias</td>
    <td>Linus</td>
  </tr>
</table>
```


Tables in HTML: Table Headers

The table header tags `<th>` and `</th>` are used to create header data cells in a table.

```
<table>
  <tr>
    <th>Person 1</th>
    <th>Person 2</th>
    <th>Person 3</th>
  </tr>
  <tr>
    <td>Emil</td>
    <td>Tobias</td>
    <td>Linus</td>
  </tr>
</table>
```

Tables in HTML: Table Data

The table data tags `<td>` and `</td>` are used to create data cells in a table.

```
<table>
  <tr>
    <td>Emil</td>
    <td>Tobias</td>
    <td>Linus</td>
  </tr>
</table>
```

Tables in HTML: Colspan

The Colspan attribute is used to make a cell span over multiple columns.

NAME		



Tables in HTML: Colspan

The following is the syntax for using the Colspan attribute:

```
<table>
  <tr>
    <th colspan="2">Name</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jack</td>
    <td>Sparrow</td>
    <td>43</td>
  </tr>
  <tr>
    <td>Eva</td>
    <td>Jackson</td>
    <td>57</td>
  </tr>
</table>
```



Tables in HTML: Rowspan

The Rowspan attribute is used to make a cell span over multiple rows.

APRIL		



Tables in HTML: Rowspan

The following is the syntax for using the Rowspan attribute:

```
<table>
  <tr>
    <th>Name</th>
    <td>Jack</td>
  </tr>
  <tr>
    <th rowspan="2">Phone</th>
    <td>+91 9999955555</td>
  </tr>
  <tr>
    <td>+91 9999912345</td>
  </tr>
</table>
```



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List in HTML

Unordered List in HTML

Unordered list begins with `` tag followed with `` tag for each content of the list.

```
<ul>  
  <li>Cat</li>  
  <li>Bat</li>  
  <li>Rat</li>  
</ul>
```

- Cat
- Bat
- Rat

By default, unordered list starts with bullet point.

Ordered List in HTML

Ordered list begins with **** tag followed with **** tag for each content of the list.

```
<ol>  
  <li>Cat</li>  
  <li>Bat</li>  
  <li>Rat</li>  
</ol>
```

1. Cat
2. Bat
3. Rat

By default, Ordered list starts with numbers.

Working with Lists



Problem Statement:

You are asked to work with lists.

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to work with lists are:

1. Work with lists



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HTML Attributes and Links

HTML Attributes

Attributes are defined as an extra information about various HTML elements.



It consists of two parts:

- **Name:** It is the name of the attributes that is used to enhance the HTML elements.
- **Value:** Value refers to the property that can be set for a particular attribute.

HTML Links

href attribute is used to add links into any HTML elements, followed by the URL inside the anchor tag `<a>`.

```
<a href="https://www.google.com">Google</a>
```



Nesting Div and Understanding Align Attribute

Nesting Div

When there is a div inside a div, it is known as nesting of div.

```
<div>  
    <div>  
    Child  
    </div>  
  
    <div>  
    Child  
    </div>  
</div>
```



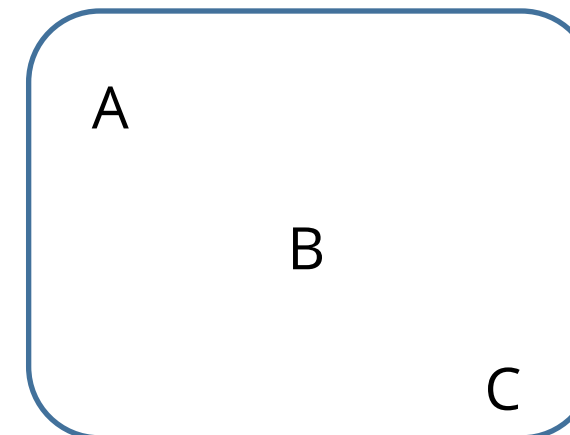
Understanding Align Attribute

For aligning any HTML elements, **align** attribute is used, followed by the content inside the element tags.

```
<div>

  <h2 align="left">A</h2>
  <h2 align="center">B</h2>
  <h2 align="right">C</h2>

</div>
```



Attributes on Text Elements

Attributes on Text Element

"text" is a type of attribute of an input element. It is used to take single line input of type text on a web page.

```
<input type="text" name="firstname"/>
```

Firstname:



Attributes on Text Element: Size

Size attribute is used to determine the length of **<input>** element.

```
<input type="text" name="firstname" s  
      ize="numeric_value" />
```

- Size attribute accepts numerical type values.
- Size attribute value should always be greater than 0.
- By default, its value is 20.

Attributes on Text Element: Maxlength

Maxlength is an attribute that takes numerical value as input and determine the maximum length of character accepted as input.

```
<input type="text" name="firstname" maxlength="5" />
```



Attributes on Text Element: Value

Value attribute is used to define the default value in the text field.

```
<input type="text" name="firstname" value="Any value"/>
```



Radio Button

Radio Button

When there is one limited number of choice then radio button is used.

```
<input type="radio">  
<label>A</label> <br>  
<input type="radio">  
<label>B</label> <br>  
<input type="radio">  
<label>C</label>
```

Display Radio Buttons

- ☐ A
- ☐ B
- ☐ C

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Select Box

Select Box

Select box tag is used to create a dropdown list.

```
<select>
<option>A</option>
<option>B</option>
<option>C</option>
<option>D</option>
</select>
```

Select elements

Choose a letter:

A ▼
A
B
C
D

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Form in HTML

Form in HTML

HTML **<form>** tag is used to takes input from the user.

```
<form method="get|post">  
    <input>  
</form>
```

It contains various types of elements like:

- **<input>**
- **<option>**
- **<select>**
- **<label>**
- **<button>**

Form Method

Method attribute states how the details of a form would be processed.



There are two types of form methods:

- GET
- POST

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Understanding Get and Post

Using Images



Problem Statement:

You are required to use images.

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to use images are:

1. Use images



Develop UI Page for eCommerce Store



Problem Statement:

You are required to develop UI page for eCommerce store.

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to develop UI page for eCommerce store are:

1. Develop UI page for eCommerce store



Develop Authentication UI Page



Problem Statement:

You are asked to develop authentication UI page.

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to develop authentication UI page are:

1. Develop authentication UI page



Form Method: Get

Get is a default method in which the form-data gets attached to the URL with name-value pairs.

```
<form method="get">

  <label>First name:</label>
  <input type="text"><br>
  <label>Last name:</label>
  <input type="text"><br>
  <input type="submit"
value="Submit">

</form>
```



Form Method: Post

In post method, the form-data is carried in a message body like HTTP post transaction.

```
<form method="post">

  <label>First name:</label>
  <input type="text"><br>
  <label>Last name:</label>
  <input type="text"><br>
  <input type="submit"
value="Submit">

</form>
```



Key Takeaways

- `<h>`, `<p>`, and `<div>` are some of the basic tags used in HTML.
- ``, `<i>`, and `<q>` tags are used to format the content of web pages.
- There are two types of list in HTML: unordered list and ordered list.
- There are two types of form method: get and post.

