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Introduction to Web Development

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Overview

Hypertext Markup Language, or HTML, is the recognised standard language for creating documents designed to be displayed in a web browser. Currently, the latest standard is HTML5. HTML is often used in conjunction with *Cascading Style Sheets (CSS)* and *JavaScript (JS)*, to style and add further functionality to a page.

An Example HTML Page

Below is a very simple HTML document showing three main elements: DTD (or Document Type Definition), <head>, and <body>:

```
<!DOCTYPE html> <!-- HTML5 Document Type Definition -->
<html>
  <head>
    <title>QA Talent HTML</title>
  </head>

  <body>
    <p>Welcome to QAT HTML!</p>
  </body>
</html>
```

Document Type Definition (DTD)

The document type definition is **required** to be placed at the top of every HTML document. It is used to inform the browser about the version of HTML that is used in the document.

Have a look at the below examples of how to declare a DTD:

HTML 4 Strict

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN"
"http://www.w3.org/TR/html4/strict.dtd">
```

HTML 4 Transitional

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0
Transitional//EN" "http://www.w3.org/TR/REC-html4/loose.dtd">
```

HTML 5

```
<!Doctype html>
```

Head

Advanced Testing (Theory)
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The `<head>` tag is used to define metadata (data *about* the data) for a HTML document, such as scripts, document titles, and more. This data is not displayed on the page.

Tag	Purpose
<code><title></code>	Defines title of document for browser tab, favourites and search engine results
<code><style></code>	Defines style information about this document
<code><link></code>	Defines where external style sheets should be linked from
<code><meta></code>	Specifies the page’s character set, description, keywords, author, viewport, etc
<code><script></code>	Defines client-side JavaScript (although more commonly included as last element of (<code><body></code>))
<code><base></code>	Specifies base URL and target for all relative URLs in a page

Tutorial

There is no tutorial for this module.

Exercises

1. Create a HTML page with the title "MyHTMLPage" and one large heading that displays the message "This is my HTML page".

▼ Solution

```
<!DOCTYPE html> <!-- HTML5 Document Type Definition -->
<html>
  <head>
    <title>MyHTMLPage</title>
  </head>

  <body>
    <h1>This is my HTML page</h1>
  </body>
</html>
```

▼ Details