FUNDAMENTALS

Terms

Attributes HTML element

Client HTTP (Hypertext Transfer Protocol)

CSS HTTP request

CSS declaration HTTP response

CSS property JavaScript

CSS rule Opening/closing tags

DOM (Document Object Model) Server

HTML URL (Uniform Resource Locator)

HTML document Validation

Summary

- *HTML* (*Hypertext Markup Language*) is a markup language used to define the structure and contents of web pages.
- CSS (Cascading Stylesheets) are used for styling web pages.
- *JavaScript* is a programming language used for making web pages interactive.
- To view a web page, we enter its *URL* (*Uniform Resource Locator*) into the browser's address bar.
- To view the HTML behind a web page, we right-click on the page and select View Source or View Page Source.
- *HTTP* (*Hypertext Transfer Protocol*) is a set of rules that clients and servers use to communicate and exchange data.

- When you visit a website, your browser (client) sends an *HTTP request* to the server and receives an *HTTP response*. The response includes an *HTML document* that represents the page you're visiting. The browser reads the HTML document to construct a *Document Object Model* (an in-memory representation of the elements on the page). Once the DOM is ready, the browser *renders* (displays) the target page.
- We can use the Network tab of Chrome DevTools to inspect HTTP requests and responses exchanged between the browser and the server.
- An HTML document consists of a DOCTYPE declaration that specifies the version of HTML being used followed by a tree (hierarchy) of elements that define the structure and content of the document.
- The *root element* in an HTML document is the html element which always includes a head and a body element. The head element contains information about the page such as its title. The body element includes the structure and content of the page.
- Most HTML elements include an opening and closing tag.
- We can use *attributes* to provide additional information about an element (like the source of an image). Attributes are coded as part of the opening tag.
- To style an element using CSS, we write a *CSS rule* which consists of a *selector* and one or more *declarations*.
- The selector is used to target one or more elements. We can select elements by their type, class, ID and so on.
- A declaration consists of a property, a colon, a value and is terminated by a semicolon.
- Prettier is the most popular VSCode extension for formatting code.
- Using *validation* services we can ensure that our HTML/CSS code is valid and follows the official rules. This helps us get better rankings in search engines.