Day 1: Introduction to HTML

Date: 5-06-24

Summary of the Day: Today marked the beginning of our web development training. The focus of the session was on understanding the basics of HTML (HyperText Markup Language) and setting up our development environment using Visual Studio Code (VSCode). The day was productive, providing a solid foundation for our journey into web development.

Detailed Notes:

1. Introduction to HTML:

- **What is HTML?**
  - HTML stands for HyperText Markup Language.
  - It is the standard language used to create and design documents on the web.
  - HTML structures the web content and tells the browser how to display the text, images, and other forms of multimedia on the webpage.

- **Importance of HTML:**
  - HTML is the backbone of any website.
  - It is essential for creating web pages and web applications.
  - It enables the embedding of images, videos, and forms, creating interactive web pages.

2. Setting Up the Editor (VSCode):

- **What is VSCode?**
  - Visual Studio Code (VSCode) is a free, open-source code editor developed by Microsoft.
  - It supports various programming languages and comes with a multitude of extensions to enhance productivity.

- **Installation and Setup:**
  - Downloaded and installed VSCode from the official website.
  - Configured basic settings and installed essential extensions for web development (e.g., HTML, CSS, Live Server).

3. Basic HTML Structure:

- **DOCTYPE Declaration:**

▢ <!DOCTYPE html>

- This declaration defines the document type and version of HTML.
- It is mandatory and should be the very first line in any HTML document.

⬚ HTML Document Structure:

- <html>

- <head>

- <title>Page Title</title>

- </head>

- <body>

- <h1>This is a Heading</h1>

- <p>This is a paragraph.</p>

- </body>

- </html>

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  - <html>: The root element that wraps all the content of the webpage.

  - <head>: Contains meta-information about the HTML document (e.g., title, meta tags, links to CSS).

  - <title>: Sets the title of the webpage, which is displayed in the browser's title bar or tab.

  - <body>: Contains the content of the HTML document, such as headings, paragraphs, images, links, etc.

4. Basic HTML Tags:

- **Headings:**

⬚ <h1> to <h6>

- Headings range from <h1> (most important) to <h6> (least important).

⬚ **Paragraph:**

- <p>This is a paragraph.</p>

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  - The <p> tag defines a paragraph.

- **Lists:**

  - Ordered List:

  - Unordered List:

  - List Item:

Practical Exercise:

- Created a simple HTML document using the basic structure and tags learned today.

- Tested the document in a web browser to see the rendered output.

Reflection: Today's session was a great start to understanding the fundamentals of web development. Learning about HTML and setting up VSCode has provided a good base to build upon. I look forward to delving deeper into HTML and exploring more advanced concepts in the coming days.