Introduction to HTML

Objective

Today, we will dive into the fundamentals of HTML (Hypertext Markup Language), the backbone of web development. By the end of this session, you will understand the basic structure of HTML documents and be able to create simple web pages.

What is HTML?

HTML stands for Hypertext Markup Language, and it forms the foundation of web pages by defining the structure and content. HTML uses tags to mark different types of content such as headings, paragraphs, and links.

Structure of an HTML Document

An HTML document consists of:

- `<!DOCTYPE html>` declaration (defines the document type)
- `<html>` element (root element of an HTML page)
- `<head>` element (contains meta-information about the document)
- `<title>` element (sets the title of the document, displayed in the browser's title bar)
- `<body>` element (contains the visible content of the document)

HTML Elements and Tags

- **Headings**: Used to define headings of various levels (`<h1>` to `<h6>`).
- **Paragraphs**: Used to define paragraphs of text (`<p>`).
- **Links**: Used to create hyperlinks to other web pages (`<a>`).
- **Lists**: Used to create ordered (`<ol>`) and unordered (`<ul>`) lists.

Example HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My First Web Page</title>
</head>
<body>
    <h1>Welcome to My Web Page!</h1>
    <p>This is a paragraph of text. Here's a <a
href="https://www.example.com">link</a> to Example.com.</p>
    <h2>My Favorite Foods</h2>
    <ul>
        <li>Pizza</li>
        <li>Sushi</li>
        <li>Chocolate</li>
    </ul>
</body>
</html>
```

Short Task

1. Create a new HTML document using a text editor (like VS Code).
2. Write the HTML structure including `<!DOCTYPE html>` , `<html>` , `<head>` , `<title>` , and `<body>` tags.
3. Add headings (`<h1>` to `<h3>`), paragraphs (`<p>`), and create a list (`<ul>` or `<ol>`) of your favorite foods.
4. Save the file as `index.html` and open it in a web browser to view your first web page.

Resources

- [HTML Introduction - W3Schools](#)
- [HTML Elements - W3Schools](#)
- [HTML Attributes - W3Schools](#)