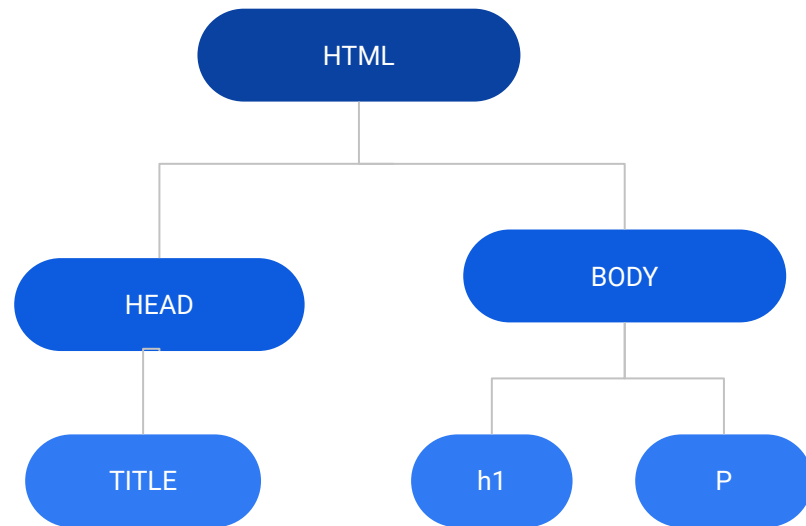- HTML is the basic building block of websites and web applications in the browser.

- **HTML (HyperText Markup Language)** provides the **structure** and **content** of web pages and web applications.
  It defines elements like headings, paragraphs, links, images, and forms.

- **Websites and web applications** rely on HTML as the foundation upon which styles (CSS) and interactivity (JavaScript) are layered.

- **HTML** is processed by browsers to render the **visual** and **interactive content** users see.

```html
<!DOCTYPE html>
<html>
  <head>
    <title>My First Page</title>
  </head>
  <body>
    <h1>Welcome!</h1>
    <p>This is my first HTML page.</p>
  </body>
</html>
```

# Definition of "Tag" and "Element"

<h1>Welcome!</h1>

<h1> is the **opening tag**.
</h1> is the **closing tag**.

**Breakdown of the Example**

**Opening Tag:** <h1>
**Content:** Welcome!
**Closing Tag:** </h1>
**Element:** <h1>Welcome!</h1>

# Definition of "Element" and "Attributes"

## What is an Attribute?

Attributes provide additional information about an element.
They are added to the opening tag and follow this format:
attributeName="value"

```
<img src="example.jpg" alt="A beautiful view" width="300" />
```

# Attributes

```
<img src="example.jpg" alt="A beautiful view" width="300" />
```

**Breaking It Down:**

1. **Element:** `<img src="example.jpg" alt="A beautiful view" width="300" />`

   - The `<img>` tag is an **HTML element** used to display an image.

   - It is a **self-closing element** because it doesn't have content between tags.

2. **Attributes:**

   - `src` : Specifies the path or URL of the image ( `src="example.jpg"` ).

   - `alt` : Provides alternative text if the image fails to load ( `alt="A beautiful view"` ).

   - `width` : Sets the width of the image in pixels ( `width="300"` ).

- Structural Elements
- Heading Elements
- Text Formatting Elements
- List Elements
- Link and Media Elements
- Form Elements
- Table Elements
- Self-Closing Elements
- Container Elements
- Embedded and External Content Elements. (iframe, canvas, object)