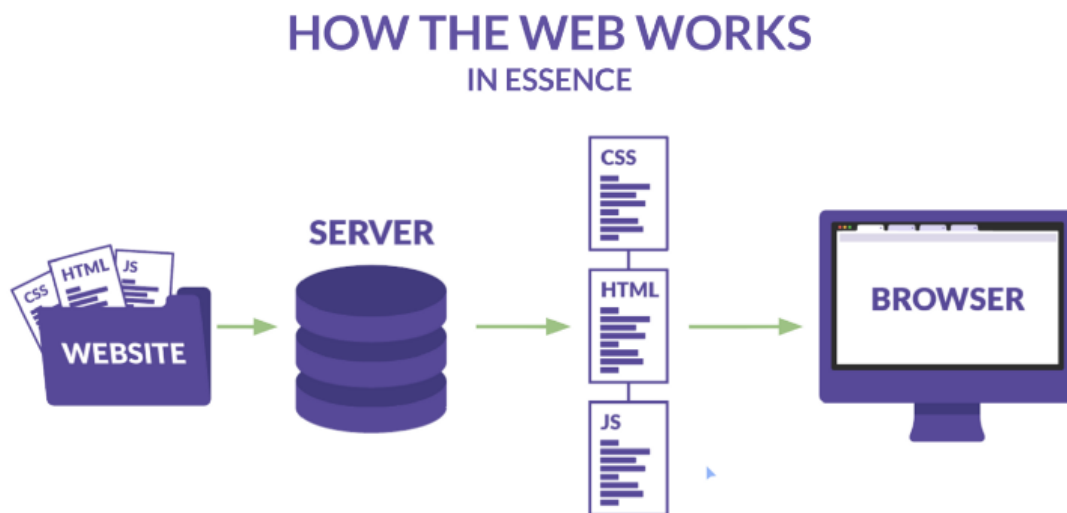HTML

HTML – is a language for writing webpages (when you type a URL like google.com or poppykode.com what is displayed is a webpage)

- HTML works together with CSS and JavaScript to create comprehensive webpages
- HTML alone is like a skeleton – it gives structure to a webpage but does not have flesh(which will be CSS) and movement(which will be JavaScript)

HOW THE WEB WORKS
IN ESSENCE

1. So a user browses a certain URL or domain name or link using a browser (opera, chrome etc.)
2. When you press enter you are sending what we call a **request**(meaning you want something returned you are requesting for something in this case a webpage which in simple terms is a bunch of html, CSS and JavaScript which your browser displays nicely on your device)
3. The server – serves you with the files or a webpage that you would have requested(the difference between your computer and a server is that servers are flat- so that we can stack them together in a server room, they have heavy CPUs, RAM etc. , they are always plugged in and more other stuff which you don't have to worry about)

*note HTML is made up of tags,

* You open and close these tags

*content that is displayed on a webpage is goes between tags mostly.

Content goes here...

```
<!DOCTYPE html>
<html>
    <head>
    </head>
    <body>
        Everything you see on a webpage comes here
    </body>
</html>
```

TAGS/Elements to Know

1. `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>`, `<h6>` header tags – just like your word document has headers so does webpages

    Usage:
    `<h1>`I'm header and I'm bigger than all the other headers`</h1>`

2. `<p>` tag – to create a paragraph

    Usage:
    `<p>` I'm a paragraph`</p>`

3. `<a>` (anchor) tag for creating links

    Usage:

    `<a href="www.google.com">` some text`</a>`

    *some tags self-close

4. `<ul>` (unordered list), `<ol>` (ordered list) and `<li>` (list element) tags.

    a) Usage: (unordered list),
    Creates a list with bullets
    `<ul>`
        `<li>`one `</li>`
        `<li>`two `</li>`
    `<ul>`

b) Usage: (ordered list),
   Creates a list with numbers

```
<ol>

        <li>one </li>
        <li>two </li>
   <ol>
```

5. `<table>` tag for creating table
   Usage:

```
<table >
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
  <tr>
    <td>Eve</td>
    <td>Jackson</td>
    <td>94</td>
  </tr>
</table>
```

   *<tr> - creates a row
   *<td> - creates column
   So each row contains columns

6. A horizontal ruler `<hr>` creates a horizontal line
7. `<br>` break line (go to the next line)
8. `<image>` image tag for displaying images

   Usage:

```
<img src="some_imag.jpg" alt="some_imag"/>
```

   *note **alt** tag it's the information that is displayed if for some reason your image does not render or show on a web page, it is also important for search engine optimization (SEO we will discuss it under web design) and also for screen readers used by people that might be visually handicapped

9. `<div>Hello World</div>` block element its more of a container which can hold other elements

   Usage:

   ```
   <div>
       <p>ngoni</p>
           <ul>
           <li>one </li>
           <li>two </li>
       <ul>
   </div>
   ```

   *Note we put elements between a div tag so that we are able to give them one style using CSS for example