1. Development Environment: As mentioned in the requirement specification section, the things which will be used to develop the website such as:
   * + 1. Hardware

* Windows laptop was used to access the home server.
* To make a home server, a 10-year-old laptop was used.

1. Software and operating systems
   * + Visual studio code will be used for coding the website.
     + Linux operating system for the home server
     + Docker for running Apache, PHP, MySql, PhpMyAdmin (for managing database)
     + Free domain name from DuckDns.
2. Front-end Implementation: 3 programming languages such as HTML CSS and JavaScript, use for front-end of the development of the website.

First, we will talk about HTML:

The first page which is use on the website, which will be seen by the user when they will visit the website, will be the index.html page which is the login page of the website. This is the page user must go through to access the website. More details are provided on how the login system works in the Back-end implementation section.

Here, we will talk about the front end of the website, what user will see on their browser when they will visit the website.

Here is the code snippet of the HTML code for the index.html

1. Back-end Implementation: This section covers the development of the server-side functionality of the website, including the database design and management, server-side scripting, and server-side APIs.
2. Integration: This section covers the integration of the front-end and back-end components of the website, including how they communicate with each other and how they are deployed on the server.
3. Testing: This section covers the testing methodology used to validate the functionality of the website, including unit testing, integration testing, and acceptance testing.
4. Deployment: This section covers the process of deploying the website on a live server, including any configuration and setup required to make the website publicly accessible.
5. Maintenance and Support: This section covers the ongoing maintenance and support of the website, including how bugs are tracked and fixed, how updates are deployed, and how user support is provided.