

Frameworks and Programming Language Requirements

- **HTML**

HTML (Hypertext Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content (mozilla, 2022). Since this project is a web-based application HTML is a must.

- **CSS**

CSS will be used in this project to give styling to the project. And to make the application responsive and as user friendly as possible.

- **Bootstrap**



Figure 1: (Bootstrap, 2022) Bootstrap Logo

Bootstrap is a free, open-source toolkit for developing websites and web applications. It was created to make it easier to build responsive, mobile-first designs using a set of pre-designed templates and styles. (Andrew Zola, 2022). Bootstrap will be used as the CSS framework to complete the project smoothly.

- **React JS**

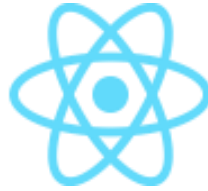


Figure 2: (Reactjs ORg, 2022)React Logo

"React.js is a tool developed by Facebook that allows developers to create interactive user interfaces and web applications in a fast and efficient manner. It uses JavaScript and reduces the amount of code needed compared to using vanilla JavaScript. It is open source, which means it is available for anyone to use and modify. (Herbert, 2022) As this project will be a single page application react is going to be used.

- **Node js**



Figure 3: (nodejs, 2022) Nodejs Logo

Node.js is a tool used by developers to build web applications that run on the server side, rather than in a user's browser. It is designed to handle large amounts of data and utilizes an event-driven, asynchronous model. Node.js was created in 2009 and has regularly updated versions, with the latest release being version 15.14 in April 2021. (Taha Sufiyan, 2022)

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