High Level System Architecture

**Frontend technologies**

1. **Hyper Text Markup Language (HTML):** will be the markup language that will allow the browser to display the content of the website.
2. **Cascading Style Sheets (CSS):** will be the markup language used to describe how the web pages will be presented.
3. **Bootstrap:** will be the CSS framework that will be used to provide mobile-first and responsiveness for the WebPages and templates for components, like forms, buttons, and navigation. License: <https://github.com/twbs/bootstrap/blob/main/LICENSE>
4. **JavaScript:** will be the language used to program the behavior and functionality of the web pages and to define how the data flows and is stored in the client side.
5. **ReactJS:** will be the JavaScript framework used for modern, scalable, and modular web app development with the use of interactive and reusable components. License: <https://github.com/facebook/react/blob/main/LICENSE>

**Backend technologies**

1. **FAU Lamp Server:** will be where our Fall 2021 CEN4041 term project will be temporally hosted and served from.
2. **NodeJS:** is the runtime environment that will be used to develop and run our web application using JavaScript. It will also provide tools to facilitate and automate the development process. License: <https://github.com/nodejs/node/blob/master/LICENSE>
3. **ExpressJS:** will be the JavaScript framework used to facilitate the development of the backend API and interfacing with the database. License: <https://github.com/expressjs/express/blob/master/LICENSE>
4. **MongoDB:** will be the NoSQL database system that will be used to build an easily scalable database with flexible and evolving data schemas. License: <https://github.com/mongodb/mongo/blob/master/LICENSE-Community.txt>

**Other technologies**

1. **Github:** will be the code hosting platform that will allow our team to collaboratively work on the app and track its versions without compromising the integrity of the project.
2. **Jira Software:** will be the work management tool used to track progress and manage our team project while making use of agile methodologies. It will also serve as the main method of communication for the team.
3. **Jira Confluence:** will be the collaboration wiki tool that will allow our team to collaboratively develop the documentation necessary for our application. It will also serve as a workspace for sharing knowledge and notes.

**Browser Compatibility**

The system will be a web-based web app that operates on at least two of the all of the major browsers, including Google Chrome, Mozilla Firefox, Safari, Opera, and Internet Explorer. It will have functionality in it that will provide alternatives if the browser does not have JavaScript installed on it.