Software Implementation and Testing Document

For

Group <3>

Version 1.0

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1. Programming Languages (5 points)

List the programming languages use in your project, where you use them (what components of your project) and your reason for choosing them (whatever that may be).
(Jeyma Rodriguez)
- *Typescript (Backend implementation)*
    We decided to use Typescript because it has static typing feature. You can define types for variables, function parameters, and return values. Thanks to its static typing and the different type definitions available in TypeScript, Integrated Development Environments (IDEs) and text editors provide enhanced autocompletion, inline documentation, and code navigation features. TypeScript introduces classical OOP features like classes, interfaces, and inheritance. Also, TypeScript's type annotations and interfaces can serve as documentation, making the codebase more understandable.
- *HTML (Document Structure, linking pages, forms, semantic, embedding external resources)*
    HTML provides the basic structure to web pages which is easy to use and edit. HTML allows you to embed various media types into a webpage, such as images, videos and audio clips. HTML provides the ability to capture user input through forms. HTML is also very flexible and adaptable.
- *CSS (customization)*
CSS allows designers and developers to separate the structure of a document (provided by HTML) from its visual presentation. This ensures cleaner code and easier maintenance. CSS provides a vast array of styling properties and values. This allows for a high degree of flexibility in designing web pages, from layouts to typography to animations.

2. Platforms, APIs, Databases, and other technologies used (5 points)

List all the platforms, APIs, Databases, and any other technologies you use in your project and where you use them (in what components of your project). (Jada Doby)
API - We are using the React Api we use it to help built our website interface
Database wise – MongoDB is the technology we are using to store our unstructured data from staff and faculty pages of Florida State University
Platforms – Mac OS and Windows

3. Execution-based Functional Testing (10 points) (Laura)

We tested logging in to our web application using a login portal. Although we were not able to get this to work yet as we are still working on our database, running the test helped us better understand what to work on.

4. Execution-based Non-Functional Testing (10 points) (Marija)

When testing security, we can navigate to the sign in page but since the database is not functional, it is not saving the input. Started making the user-friendly making page using CSS.

5. Non-Execution-based Testing (10 points) (Margaret)

Walked through the code making sure two different ports for the website, making sure they were running, and making two different repositories to work in the backend and frontend.