

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).

- JavaScript, Html and CSS
- We decided to use JavaScript because it has a lot of great features. You can define types for variables, function parameters, and return values. Thanks to its dynamically typed language and the different type definitions available in, Integrated Development Environments (IDEs) and text editors provide enhanced autocompletion, inline documentation, and code navigation features.
- 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).

API - We are using the React Api, we use it to help built our website interface

Framework – We are using React

Database wise – MongoDB is the technology we are using to store our data from staff and faculty pages of Florida State University as well as our user data.

Platforms – Mac OS and Windows (In order to access our website)

Node – we used node for running the server side code

3. Execution-based Functional Testing (10 points)

Describe how/if you performed functional testing for your project (i.e., tested for the **functional requirements** listed in your RD).

We performed a lot of testing for the backend and front end of our project. We utilized 'Postman' to test all routes for our backend. We ensured all routes written were successful. We have been progressively testing our backend to frontend connections as we build out frontend pages. The front end was tested by ensuring when we entered data as a user it was a simple and efficient process and we made sure on our backend database management MongoDB system that it was saved.

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

Describe how/if you performed non-functional testing for your project (i.e., tested for the **non-functional requirements** listed in your RD).

We performed non-functional testing on our project by ensuring the UI design and all the functionality for them is working to make sure the user experience is good. The anonymity and

privacy aspects are checked by ensuring the choices of the reviewer's identifiable information is secured. The Data of the courses, professors, reviews and reviewers are accurate for the florida state university. The security of the application is tested by the implementation of a secure sign in process, requiring users to provide valid credentials to logon into the account and leave reviews anonymous or identifiable.

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

Describe how/if you performed non-execution-based testing (such as code reviews/inspections/walkthroughs).

We walked through the front-end code and backend server code to make sure two different ports for the website are good. After we suspected the code, we ensured the comments that were imperative to understand each other code were there. Next, we make sure our sign in, sign up and search button were working and that we can dynamically add, delete and update professors and courses. We also added a lot of data to your MongoDB database management system for our professors and courses that are available to students for them to do reviews on for the professors. Also, we ensure that all the account page work and the information is stored and the reviews and reviewers.