A03 Student Team Manager Non-Functional Requirements

Design Team: Group 5
Team Members: Rae Bouldin, Yuan Chen, Saunders Cox, Stephen Franklin,
                                        Chaipakon Luangprasert

Non-functional Requirement 1: User security

User data will be secured by placing constraints on passwords and using secure login methods such as two-factor authentication (2FA). Constraints on passwords will include a minimum character length, the requirement of non-alphanumeric characters (e.g. special characters like '&', '!', etc.), and restriction on including certain unsecured words or phrases (e.g. 'password'). Once the user creates an account, they will have the option to enable 2FA to further secure their account during the login process. When enabling 2FA, the user will be able to choose to send an authorization code over email or text message.

Non-functional Requirement 2: Portability

The application will be responsive to the users' chosen device, meaning the UI scales based on specific dimensions of the device and is not restricted to a specific operating system platform. The UI should be fast enough that it doesn't lag on the platforms and network requests should be minimized such that loading times can be quick over data restricted networking environments, such as cellular data.

Non-functional Requirement 3: Internationalization

To support customers from all around the world, our platform will have multi-languages feature support. The default platform will be in English, but customers will have choices of multiple supported languages, which they can select from the footer on any page of the website. Customers will also be able to set their preferred default language from their profile page.

Non-functional Requirement 4: Quick Accessibility

Our code will be written with efficient algorithms/practices so as to reduce customer wait-times for certain complex requests. For instance, loading a webpage should take no longer than 5-10 seconds on the maximum. Ideally, average load times will be much faster than this.

Non-functional Requirement 5: Version Control

We will implement version control for our development and deployment. It will allow us to back up our data and update any new features of the software safely.