1 Nonfunctional Requirements

1.1 Functionality

- Passwords in the database repository should be encrypted to prevent breach in user privacy.

- All forms that write or read from the database should have some form of input validation to prevent SQL injection.

- User should be able to log out of users login session whenever they please.

- System automatically logs-out any user who has been inactive for 1 hour.

- All hyperlinks should transfer the user to the indicated page.

- The design, implementation, and support of the website, and any systems used by the website, will operate on a budget of $0.00 per year.

1.2 Usability

- The website will be displayed in one of the multiple color schemes (skins) designed for aesthetic pleasantry.

- Users may select a skin of their choosing, otherwise the default skin will be displayed.

- A single color scheme will not include colors that are difficult to distinguish for those with common forms of color blindness.

- All documents and code will comply with the determined style guide.

- Fonts should be readable from 2 feet away by an individual with average vision on a screen of 800x600 or larger resolution.

- Hyperlink text should appropriately represent the information to which the hyperlink leads.

1.3 Reliability

- User authentication will consistently log the correct user into the correct account without error.

- The website will never go down unless scheduled. In the case of scheduled down time, the website will display a notification at least 48 hours prior to the down time.

- The database repository will be backed up every two weeks.

1.4 Performance

- Page loading should be minimized as much as possible, so page size should be kept as small as possible. Pages will load within 1 second.

1.5 Supportability

- The website and the database schema will be thoroughly documented to facilitate troubleshooting by all administrators.

- The website will provide a means for users to contact site administrators to report site error or issue.

- In the case of an error, the website will provide a friendly, helpful message telling what happened, calming the user and providing a way to inform site administrators of the problem.

- In the case of a database error, an event will be logged for administrator use.