**Performance Requirements**

* All pages must load within 3 seconds.
* Server must support 1000 concurrent users.
* A book must be listed to the website within 30 seconds of submission.
* The application must have an availability rate of 99.9% within any allocated time frame.
* If a user is signed up for notifications (email, phone, etc.), the application should push them out within 3 seconds.

**Sign In**

Normal Operation:

User’s university email address is validated.

Undesired Event: The submitted email is invalid.

Course of Action: The user will be told their email is not valid and will be prompted to sign in again.

Undesired Event: The user logs in with an incorrect password more than 5 times.

Course of Action: Redirect the user to set up a new password before logging into the application.

Undesired Event: The user visits a page on the website without being authenticated.

Course of Action: Redirect the user to a login page.

**Time Out**

Normal operation:

After 30 minutes of inactivity the user’s session is no longer valid.

**Book Listing**

Normal operation:

The user submits a book, and it is listed on the website.

Undesired Event: The submitted book is not valid.

Course of Action: The listing will not be completed, and the user will be prompted to try listing again

Undesired Event: A book posting remains on the application for 20 days without a sale occurring.

Course of Action: On the 15th day, provide a warning notification to the user asking them if they would still like the posting to be placed. If no response is received by the 20th day, the application archives the posting and removes it from the marketplace.

**Site Navigation**

Normal Operation:

Users will use the UI navigate the site from any modern browser.

Undesired Event: The user visits the application from an unsupported browser.

Course of Action: Display an error message listing browsers that are supported.

Undesired Event: The user visits a non-existent page.

Course of Action: Display an error message listing that the page was not found.