Testing Done in Application

Login/logout:
- Logging in with correct credentials
  - A user logs in with a username and password. A user must have previously registered themselves.
    - Successful login will bring the user to the main site. User must have correct username and password. User must have previously registered.
    - Failed login will bring the user to a page that says "Invalid login." The user can then click on the back to login button, and that will redirect the user to the original login page.
- Successfully logging out
  - When a user successfully logs into the site, they will see their is a logout button and can log out at anytime.
    - Upon successfully logging out, the user will be redirected the login page and given a message "Successfully logged out."
    - Upon failed logout, the user will be presented a message saying "failed to log out."

Registration:
- A user can register as a student or researcher. The registration for researcher requires an access code, first name, last name, email address, username, and password. A student is only required to have first name, last name, email address, username, and password.
  - Successful registration for researcher:
    - A researcher must have a correct access code, as well as having all other text input boxes filled out for a successful register. With all correct information filled out, the user will be redirected to the login page with a "successful register" at the bottom of the page.
  - Failed registration for researcher: Each case will refresh the page with "failed registration" message.
    - Failed registration case 1: Researcher does not have access code or incorrect access code.
    - Failed registration case 2: Researcher did not fill in all the required text fields.
  - Successful registration for student:
    - Student filled out all required text fields. Successful registration will redirect user to login page with "Successfully registered" at the bottom of the page.
  - Failed registration for student:
    - Student did not fill out all required text fields. The page will be refreshed with a "Failed registration" message.

Upload/Create and Insertion - manifest:
- When a researcher successfully logs in, they will see that they can create a new manifest. Creating a new manifest means uploading a new JSon file to their

account and inserting it into the database. A student cannot see this, they do not have that privilege. A researcher is allowed to give a title and description for the manifest. A title is required, but a description is not.

- o Successful insertion - "successful upload" massage and refreshed page upon successful upload:
  - The researcher uploaded the correct file(JSon file).
  - The researcher uploaded a file that does not exceed file size limit.
  - The researcher uploaded an existing file.
  - File was successfully inserted into database.
  - A title for the manifest is given.
- o Failed insertion - "failed upload" message and refreshed page upon failed upload:
  - If any of the conditions above fail.
  - If no file was uploaded at all(file doesn't exist).

Updating - manifest:

- When a researcher successfully logs in, will also see an update button, but will only appear if their is already an uploaded manifest. The update button allows a researcher to update any information on a pre-existing manifest. Students will not see this, they do not have that privilege. Can also update the description, and title of manifest, but not required for a successful update.
  - o Successful update - "successfully updated" message and refreshed page upon successful update
    - All conditions for insertion still apply for updating.
    - In addition to: database was updated correctly(no new entry was created, & correct fields were updated in correct spots in table).
  - o Failed update - "failed to update" message and refreshed page upon failure.
    - Any of the conditions above failed.
    - File does not exist.

Deletion - manifest:

- When a researcher successfully logs in, will also see a delete button, but will only appear if their is already an uploaded manifest. The delete button will allow a researcher to delete any pre-existing manifest from their account. Students cannot see this, they do not have this privilege.
  - o Successful deletion - "successfully deleted" message and refreshed page upon success:
    - Deleting pre-existing manifest.
    - Successfully deleted from account.
    - Deleted correct manifest from database.
  - o Failed deletion - "Could not delete" message and refreshed page upon failure:
    - File does not exist.
    - Could not delete from database.
    - Information not deleted from account.

Manifest search:

- Any user who has registered and successfully logged in is able to search manifest. This means researchers and students. Users are able to search manifest with letters/keywords/phrases(title of manifest, description of manifest, date of manifest, ect.). A user is then able to see all manifest obtained by those letters/keywords/phrases.
  - Successful search - Shows all results obtained by what's written in search bar on page:
    - The letters/keywords/phrases match a manifest name in database.
    - Database returns correct searched results.
  - Failed search - Results are not shown on page and a "No manifest found" message displayed on the page
    - The manifest does not exist in database.
    - Manifest did not return correct searched results.

Integration/Regression Testing
- There will be no testing for either of these for this sprint.

User Acceptance Testing

- Acceptance testing will be done further down in sprints when we have more of the project finished. The testing will be done by giving it to Professor Goggins, and the TA's and all the required elements will be close to be done.