

User Acceptance Test Scenarios for documented requirements (overall system of what is acceptable)

Login/Logout

- Users who have proper login credentials should be able to access the A.W.S. and perform certain tasks depending on their access rights.

Uploading/Downloading

- Ensure that Computation Social Scientists, Citizens, and Social Scientists can upload metadata.
- Make sure the System Administrator can upload any file type.
- Make sure that Computation Social Scientists, Citizens, and Social Scientists and the System Administrator can download any file type.

Editing

- Ensure that Computation Social Scientists, Citizens, and Social Scientists can edit and update metadata.
- Make sure the System Administrator can edit and update any file type.

Unit Test Scenarios

Being able to login

- User provides the correct username and password and is redirected to the home page.
- User provides the correct username but incorrect password and is redirected to the login page.
- User provides correct password but incorrect username and is redirected to the login page.
- User provides incorrect username and password and is redirected to the login page.
- User provides a username that is nonexistent and is redirected to the login page.

Being able to log out

- Log user out if they're inactive for 10 minutes to avoid the database and/or A.W.S. from crashing or being modified by an unauthorized user.
- If user logs out, they cannot redirect back to the previous page or back into the website.

Being able to upload a file

- User uploads a file successfully.
- User tries to upload a word document, but the system denies it since it only accepts Json file types.
- User tries to upload a 300MB Json file, but it exceeds the maximum file size, therefore the system denies the user's request.
- User tries to upload an empty file, but the system doesn't accept it since it doesn't contain any content.
- User uploads a file with the same name, the system denies it to avoid overwriting.

- User uploads a file with the same name, the system creates a copy of the same file to avoid overwriting.

Being able to download a file

- User successfully downloads a file.
- User tries to download a file but does not do so successfully.

Managing the Database

- User inserts data into a table in the database with all of the correct fields correctly and successfully.
- User inserts data into a table in the database but didn't spell one of the fields (columns) correctly, therefore the database rejects the request.
- User updates data in a table in the database but didn't spell one of the fields (columns) correctly, therefore the database rejects the request.
- User deletes data from a table in the database but didn't spell one of the fields (columns) correctly, therefore the database rejects the request.
- User deletes data from a table in the database but doesn't specify where it's getting deleted from, therefore the database rejects the request.
- User updates the database but the Administrator didn't approve, therefore the database rejects the request.

REGRESSION TESTING

- Select the tests for regression.
- Group members should present their code or any contribution they made towards the project since the last time we tested.
- The project manager will then run through all the unit testing, acceptance testing, and integration to ensure that the new update/bug fix didn't mess up the most current stable build.
- The project manager should verify that the new update didn't break the old, stable build and begin to merge and update.
- This process must happen on a weekly basis in order to complete each sprint in time.
- Putting everything together; we must perform regression testing on a weekly basis or prior to turning in each sprint to ensure the entire system and software works properly. Anything that gets changed/updated in our system should be tested. Integration testing will be applied if we're updated multiple sections of our system.

Verification tests

- Unit testing
 - Login/Logout
 - Upload/Download files
 - Manage the database
- Regression testing

Validation tests (Login)

- User Acceptance testing
- Integration testing

Integration Testing

- We'll use the *Bottom Up Integration* testing method to test each individual component:
 - Users can login and logout successfully.
 - Users can make updates within the database and have all of the work save successfully.
 - Users can insert data into the database successfully.
 - Users can delete data from the database successfully.