**Acceptance Tests**

Test A: Login system

* Description
  + Unit test to check account creation and login functionality
* Requirements Tested
  + User Profiles (FR03)
  + Profile Creation (FR04)
* Steps:
  + Create a new user
  + Check that user exists in database
  + Attempt login with incorrect credentials
  + Check that current\_user variable is set to anonymous (login failed)
  + Attempt login with correct credentials
  + Check that current\_user variable matches the newly-created user account

Test B: Record filing system

* Description
  + Unit test to check basic functionality of record filing system
  + Tests both methods of creating a record (new and from duplicate)
* Requirements Tested
  + Failure Recording (FR01)
  + New from Duplicate (FR02)
* Steps:
  + Attempt to create a failure record with required fields incomplete
  + Check that this attempt results in an error
  + Create a failure record with all required fields
  + Check that the record exists in the database and its fields match what was inputted
  + Duplicate the newly created failure record and modify it
  + Check that the modified record exists in the database and its field matches what was inputted

Test C: Team Member Actions

* Description
  + System test to check the functionality of actions available to all members
* Requirements Tested
  + Failure Recording (FR01)
  + User Profiles (FR03)
  + Profile Creation (FR04)
  + Personal Dashboards (FR05)
  + Commenting (FR06)
  + Partial Completion (FR07)
  + Status (FR08)
  + View Past Failures (FR10)
  + Filtered Searching (FR11)
  + Bookmarking (FR12)
  + Report Generation (FR14)
* Steps:
  + Navigate to register page
  + Create a new user with member role
  + Log in as the new user
  + Click to start a new failure record
  + Partially fill in failure record
  + Save progress and return to dashboard
  + Reopen failure record in progress
  + Check that all the previously completed fields are still present
  + Complete and submit the failure record
  + Add a comment to the record
  + Bookmark the failure record
  + Navigate to user dashboard
  + Check that the bookmarked record is present
  + Run a filtered search with the record information
  + Check that the record is present in search results
  + Check that the record matches what was inputted
  + Check that the status of the record is displayed as ‘Incomplete’ and the status of the solution is ‘Not Implemented’
  + Check that the comment exists and matches what was inputted
  + Return to user dashboard
  + Generate a report of failure records with the newly-created record
  + Check that all of the report elements exist and match the expected values

Test D: Team Lead Actions

* Description
  + System test to check the functionality of actions specific to team leads
* Requirements Tested
  + Failure Recording (FR01)
  + User Profiles (FR03)
  + Profile Creation (FR04)
  + Personal Dashboard (FR05)
  + Teams Management (FR15)
  + Validation (FR16)
  + Review (FR17)
  + Management Dashboards (FR18)
  + Assigning Ownership (FR19)
  + Due Dates (FR20)
  + Editing Records (FR21)
  + Review Dates (FR22)
  + Learning Assignment (FR24)
* Steps:
  + Navigate to register page
  + Create and log into account with team lead role
  + Create new team
  + Return to register page
  + Create and log into account with team member role
  + Navigate to personal dashboard
  + Check that the newly-created team is present
  + Request to join newly-created team
  + Make a new failure record
  + Return to login page and log in with team lead account
  + Navigate to management dashboard
  + Check that the team member’s join request is present
  + Accept the join request
  + Edit failure record made by team member
  + Validate the edited failure record (input ‘yes’)
  + Review the edited failure record (input 'yes')
  + Create a new failure record
  + Return to management dashboard
  + Assign the new record to the team member
  + Set a due date for the new record (e.g., 1 week from test time)
  + Set a review date for the new record (e.g., 2 weeks from test time)
  + Assign the previously edited record (already validated and reviewed) to the team member for learning
  + Return to login page and log in with team member account
  + Navigate to personal dashboard
  + Check that the record assigned for learning is present
  + Click on the record and return to personal dashboard
  + Check that the record assigned for learning is marked as read

Test Materials

* Unit tests: Python unittest module
  + Automated testing of internal systems
* System tests: Selenium web driver
  + Automated testing of end-user experience