ToolShare Test Cases

Tool Model

(automated tests)

**Test case 1:** Add tool with all correct information

**Purpose:** Add tool to database if information was correct

**Test Prereq:** Have active account

**Test Data:** tool information

**Steps:**

1. Attempt to create tool

2. Enter information within specified criteria

3. Verify that the information fits the criteria is correct and tool is added to the database

**Test case 2:** Leave tool information field blank

**Purpose:** Addition of tool disallowed and reason for error explained

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Leave any field blank

3. Verify that the information does not fit specified criteria and tool is not added to the database because information is missing

**Test case 3:** Enter invalid name criteria (name with more than 64 characters)

**Purpose:** Tool addition criteria

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter name with more than 64 characters

3. Verify that the characters are not continued after 64 characters

**Test case 4:** Enter invalid manufacture criteria (manufacturer with more than 64 characters)

**Purpose:** Tool addition criteria

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter manufacturer name with more than 64 characters

3. Verify that the characters are not continued after 64 characters

**Test case 5:** Enter invalid location criteria (location with more than 32 characters)

**Purpose:** Tool addition criteria

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter location with more than 32 characters

3. Verify that the characters are not continued after 32 characters

**Test case 6:** Enter invalid description criteria (description with more than 128 characters)

**Purpose:** Tool addition criteria

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter description with more than 128 characters

3. Verify that the characters are not continued after 128 characters

**Test case 7:** Enter invalid quantity criteria (non-numerical quantity)

**Purpose:** Addition of tool disallowed and reason for error explained

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter non-numerical quantity

3. Verify that the information does not fit specified criteria and tool is not added to the database

**Test case 8:** Enter invalid quantity available criteria (non-numerical quantity available)

**Purpose:** Addition of tool disallowed and reason for error explained

**Test Prereq:** Have active account

**Test Data:** invalid tool information

**Steps:**

1. Attempt to create tool

2. Enter non numerical quantity available

3. Verify that the information does not fit specified criteria and tool is not added to the database

**Test case 9:** Enter valid registration information

**Purpose:** register a user

**Test Prereq:** Have a valid email address

**Test Data:**

**Steps:**

1. Attempt to create an account

2. Enter valid information within specified criteria

3. Verify that the information does fit specified criteria and send email to email address to finish verification

**Test case 10:** Missing information in account registration

**Purpose:** disallow registration of user

**Test Prereq:** Have a valid email address

**Test Data:**

**Steps:**

1. Attempt to create an account

2. Leave a field blank

3. Verify that the information does not fit specified criteria and give error message saying field is blank

**Test case 11:** Enter invalid email address in field

**Purpose:** disallow registration of user

**Test Prereq:**

**Test Data:**

**Steps:**

1. Attempt to create an account

2. Enter invalid email address (no @ sign)

3. Verify that the information does not fit specified criteria and report with invalid email error message

**Test case 12:** Enter valid registration information

**Purpose:** register a user

**Test Prereq:** Have a valid email address

**Test Data:**

**Steps:**

1. Attempt to create an account

2. Enter valid information within specified criteria

3. Verify that the information does fit specified criteria and send email to email address to finish verification

**Test case 13:** Enter username already in use

**Purpose:** disallow registration of account with username already in use

**Test Prereq:**

**Test Data:**

**Steps:**

1. Attempt to create an account

2. Enter username already in use (username:test)

3. Verify that the information does not fit specified criteria and send error message saying username already in use