

Testing Plan

Group 10

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1. Introduction

The purpose of this document is to outline the strategies for testing the Asset Management System. The testing will be requirements-based meaning that the requirements specification will be used as a basis for the testing specifications. This document contains the testing requirements, the test cases, and the results of the test cases. The testing requirements come from the requirements document as previously specified. The test cases describe the requirements being tested, the parameters tested upon, the expected outputs of the test cases, and the actual output of the test cases.

2. Testing Requirements

2.1 Admin Users:

2.1.1 Create Assets

From 3.2.1.1 of the requirements document

2.1.2 Edit Assets

From 3.2.1.2 of the requirements document

2.1.3 Retire Assets

From 3.2.1.1 of the requirements document

2.1.4 View Assets

From 3.2.3.1 of the requirements document

2.1.5 Manage Users

From 3.2.1.3.1.3 of the requirements document

2.1.6 Add User

From 3.2.1.3.1.1 and 3.2.1.3.1.2 of the requirements document

2.1.7 Delete User

From 3.2.1.3.1.3 of the requirements document

2.2. General Users:

2.2.1 View Assets

From 3.2.2.2 and 3.2.2.3 of the requirements document

3. Test Cases

3.1 Test Case:

3.1.1 From 2.1.1 of the testing requirements

3.1.2 Input Parameters: Empty Everything

3.1.3 Expected Output: error

3.1.4 Execution Steps: On `Add Asset` page press submit button without any input.

3.2 Test Case:

3.2.1 From 2.1.1 of the testing requirements

3.2.2 Input Parameters: too long of field (256 fields location)

3.2.3 Expected Output: error

3.2.4 Execution Steps: On `Add Asset` page enter a string of more than 256 characters into Location, Manufacturer, Created By, Serial Number or Current User field or a string of over 4096 characters into the description field.

3.3 Test Case:

3.3.1 From 2.1.1 of the testing requirements

3.3.2 Parameters: Type -> computer, Set Computer name.

3.3.3 Expected Output: Asset Added

3.3.4 Execution Steps: On `Add Asset` page switch Type to `Computer` and add a computer name and press submit.

3.4 Test Case:

3.4.1 From 2.1.2 of the testing requirements

3.4.2 Parameters: Change non-nullable field to empty

3.4.3 Expected Output: error

3.4.4 Execution Steps: On `View Asset` page select `Edit Asset` on any asset and change Location or Price to Empty and submit the updated form.

3.5 Test Case:

3.5.1 From 2.1.2 of the testing requirements

3.5.2 Parameters: Change nullable field to empty

3.5.3 Expected Output: Successful Update

3.5.4 Execution Steps: On `View Asset` page select `Edit Asset` on any asset and change either Description, manufacturer, serial number or warranty expiration to empty and submit the form.

3.6 Test Case:

3.6.1 From 2.1.2 of the testing requirements

3.6.2 Parameters: Change field text to too long

3.6.3 Expected Output: Error

3.6.4 Execution Steps: On `View Asset` page select `Edit asset` on any asset and change either location, price or current user to empty and try and submit form.

3.7 Test Case:

3.7.1 From 2.1.2 of the testing requirements

3.7.2 Parameters: Change valid text to different valid text

3.7.3 Expected Output: Successful Update

3.7.4 Execution Steps: On `View Asset` page select `Edit Asset` on any asset and change any field to some sort of text that is shorter than 256.

3.8 Test Case:

3.8.1 From 2.1.3 of the testing requirements

3.8.2 Parameters: Retire Asset

3.8.3 Expected Output: Successful Update

3.8.4 Execution Steps: On `View Asset` page select `Edit Asset` on any active asset and change Retired to yes.

3.9 Test Case:

3.9.1 From 2.1.2 of the testing requirements

3.9.2 Parameters: Change retired asset to retired.

3.9.3 Expected Output: Successful Update

3.9.4 Execution Steps: On `View Asset` page select `Edit Asset` on any retired asset and change Retired to no.

3.10 Test Case:

3.10.1 From 2.1.6 of the testing requirements

3.10.2 Parameters: Add Empty User

3.10.3 Expected Output: Error

3.10.4 Execution Steps: On `Admin` Page (click admin button in upper right section of screen) try and submit empty user form

3.11 Test Case:

3.11.1 From 2.1.6 of the testing requirements

3.11.2 Parameters: Add Valid User

3.11.3 Expected Output: Successfully Added user

3.11.4 Execution Steps: On `Admin` Page enter valid a username (alphanumeric less than 64 characters), password, matching password and email, type and submit the form

3.12 Test Case:

3.12.1 From 2.1.6 of the testing requirements

3.12.2 Parameters: Add Valid user with mismatch passwords

3.12.3 Expected Output: Error

3.12.4 Execution Steps: On `Admin` Page enter a valid username and email with mismatched passwords

3.13 Test Case:

3.13.1 From 2.1.5 of the testing requirements

3.13.2 Parameters: Change Valid Password to Empty

3.13.3 Expected Output: Error

3.13.4 Execution Steps: On `Admin` Page select a user to update and try submitting with a blank password.

3.14 Test Case:

3.14.1 From 2.1.5 of the testing requirements

3.14.2 Parameters: Change valid password to Mismatch Passwords

3.14.3 Expected Outputs: Error

3.14.4 Execution Steps: On `Admin` Page select a user to update and type two different passwords for the password and confirm password blanks.

3.15 Test Case:

3.15.1 From 2.1.5 of the testing requirements

3.15.2 Parameters: Change Valid password to different valid password

3.15.3 Expected Output: Successfully updates password

3.15.4 Execution Steps: On `Admin` Page select a user and enter a valid password and the same password in the confirmation field.

3.16 Test Case:

3.16.1 From 2.1.7 of the testing requirements

3.16.2 Parameters: Delete Valid Account

3.16.3 Expected Output: Successfully Deleted User

3.16.4 Execution Steps: On `Admin` Page select a user to delete and press the delete button and verify that after returning to the `Admin` page that the user no longer appears in the drop downs.

3.17 Test Case:

3.17.1 From 2.2.1 and 2.1.4 of the testing requirements

3.17.2 Parameters: View Assets as both General user and Admin user;

3.17.3 Expected Output: Displays Table

3.17.4 Execution Steps: Log in to a admin user (admin/password123) and a general user (general/password123) and click `View Assets` and verify you can see the table with assets.