

# WolfHire System Test Plan

Document Author: Hanna Reese

Date: 2/15/2023

---

## Introduction

The System Test Plan provides a series of test cases that are used to explore and test a variety of pathways throughout the requirements of the WolfHire system. The purpose of these tests is to help the developer verify that the system is meeting all possible system requirements. The test cases featured in this plan will mainly concentrate on exercising input-based pathways with both valid and invalid user input.

To run the tests:

1. Right click on the WolfHireGUI in the Package Explorer of Eclipse.
2. Select *Run As > Java Application*

After this is done, the *Position: Create a Position* menu will load. From here, the user can either opt to load an existing list of positions and applications from a file, save a current list of positions and applications that the user is working on to a file, or quit the application entirely.

Any existing test files can be found in the *test-files/* folder, which is accessible from the FileChooser upon selecting to load an existing position file. The contents of the test files are as follows:

## Test Files

### ***positions6.txt***

```
# CSC 216 PTF,12,15
* ,Submitted,Carol,Schmidt,cschmid,,
```

### ***positions2.txt***

```
# CSC 116 Grader,10,11
* 1,Reviewing,Cailin,Roach,cvroach,tnmacnei
* 2,Rejected,Clinton,Armstrong,carmstr,,Qualifications
* 5,Hired,Craig,Armstrong,carmstr,tnmacnei,
```

```

* 7,Inactive,Audrey,Kemp,akemp,tnmacnei,Fired
* 25,Interviewing,Harper,Holden,hholden,tnmacnei,
* 3,Processing,Eagan,Cardenas,ecarden,tnmacnei
* 4,Processing,Ferdinand,Acevedo,faceved,tnmacnei
* 5,Inactive,Alika,Reilly,areilly,tnmacnei,Resigned
# CSC 216 PTF,12,15
* 2,Submitted,Carol,Schmidt,cschmid,,
* 3,Rejected,Kathleen,Gillespie,kgilles,,Incomplete
* 4,Hired,Fiona,Rosario,frosari,sesmith5,
* 7,Inactive,Deanna,Sanders,dsander,sesmith5,Completed
* 8,Interviewing,Benjamin,Nieves,bmnieves,sesmith5,
* 11,Processing,Quemby,Mullen,qmullen,sesmith5,
# CSC 226 Grader,8,15
* 4,Submitted,Myra,Atkins,mlatkins,jdyoung2,
* 5,Hired,Karen,Mcguire,kamcgair,jdyoung2,
* 7,Interviewing,Dean,Wilder,dwilder,jdyoung2,
* 8,Inactive,Nehru,Contreras,ncontre,jdyoung2,Completed
# Research Assistant,15,16
* 7,Reviewing,Kerry,Tucker,kbtucker,tmbarnes,
* 3,Submitted,Inez,Koch,ikoch,,

```

## System Tests

Write at least 5 tests. We will grade the first five. Your tests should consider more complex scenarios than basic system startup and an invalid test file.

Test ID	Description	Expected Results	Actual Results
Test 1: Position Missing Field (UC1)	Preconditions: User has started the WolfHire application and the GUI has opened.	A dialog box opens with the error message "Position cannot be created."	Error message pops up saying "Position cannot be created."
Hanna Reese	<ol style="list-style-type: none"> <li>1. Select <b>Add Position</b> option from File Menu.</li> <li>2. Enter the following Position information: <ul style="list-style-type: none"> <li>- CSC 333 Grader</li> </ul> </li> </ol>		

	<ul style="list-style-type: none"> <li>- <i>Leave empty</i></li> <li>- 12</li> </ul> <ol style="list-style-type: none"> <li>3. Click <b>Add Position</b></li> <li>4. <i>Check results</i></li> <li>5. Click <b>OK</b></li> <li>6. Click <b>Cancel</b></li> <li>7. Close GUI</li> </ol>		
<p>Test 2: Position Invalid Hours (UC1)</p> <p>Hanna Reese</p>	<p>Preconditions: User has started the WolfHire application and the GUI has opened.</p> <ol style="list-style-type: none"> <li>1. Select <b>Add Position</b> option from File Menu.</li> <li>2. Enter the following Position information:</li> <li>3. "CSC 333 Grader"</li> <li>4. "4"</li> <li>5. "12"</li> <li>6. Click <b>Add Position</b></li> <li>7. <i>Check results</i></li> <li>8. Click <b>OK</b></li> <li>9. Click <b>Cancel</b></li> <li>10. Close GUI</li> </ol>	<p>A dialog box opens with the error message "Position cannot be created."</p>	<p><b>Error message pops up saying "Position cannot be created."</b></p>
<p>Test 3: Position Invalid Pay (UC1)</p> <p>Hanna Reese</p>	<p>Preconditions: User has started the WolfHire application and the GUI has opened.</p> <ol style="list-style-type: none"> <li>1. Select <b>Add Position</b> option from File Menu.</li> </ol>	<p>A dialog box opens with the error message "Position cannot be created."</p>	<p><b>Error message pops up saying "Position cannot be created."</b></p>

	<ol style="list-style-type: none"> <li>Enter the following Position information: <ul style="list-style-type: none"> <li>"CSC 333 Grader"</li> <li>"8"</li> <li>"36"</li> </ul> </li> <li>Click <b>Add Position</b></li> <li><i>Check results</i></li> <li>Click <b>OK</b></li> <li>Click <b>Cancel</b></li> <li>Close GUI</li> </ol>		
<p>Test 4: Create Valid Position (UC1)</p> <p>Hanna Reese</p>	<p>Preconditions: User has started the WolfHire application and the GUI has opened.</p> <ol style="list-style-type: none"> <li>Select <b>Add Position</b> option from File Menu.</li> <li>Enter the following Position information: <ul style="list-style-type: none"> <li>"CSC 333 Grader"</li> <li>"8"</li> <li>"12"</li> </ul> </li> <li>Click <b>Add Position</b></li> <li><i>Check results</i></li> <li>Close GUI</li> </ol>	<p><b>CSC 333 Grader</b> is displayed as the active position.</p> <p>List of applications is empty.</p>	<p><b>CSC 333 Grader is displayed as the Active Position. Application table for active position is empty.</b></p>
<p>Test 5: Delete Applications (UC8)</p>	<p>Preconditions: User has started the WolfHire application and the GUI has opened. Test 4 has passed.</p>	<p>After adding all applications, application list appears as follows:</p> <ul style="list-style-type: none"> <li>John,Smith,jsmith2, ""</li> <li>Mary,Jane,mjane22, ""</li> </ul>	<p><b>After adding the two applications, the application table appears as below:</b></p> <ul style="list-style-type: none"> <li><b>1, Submitted, jsmith2, ""</b></li> <li><b>2, Submitted, mjane22, ""</b></li> </ul>

Hanna Reese	<ol style="list-style-type: none"> <li>1. Click <b>Add Application</b> and enter the following information: <ul style="list-style-type: none"> <li>- John</li> <li>- Smith</li> <li>- jsmith2</li> </ul> </li> <li>2. Click <b>Apply to Position</b></li> <li>3. Add application with the following information: <ul style="list-style-type: none"> <li>- Mary</li> <li>- Jane</li> <li>- mjane22</li> </ul> </li> <li>4. Click <b>Apply to Position</b></li> <li>5. Select the first application in the list, "John,Smith,jsmith2"</li> <li>6. Click <b>Delete Application</b> button</li> <li>7. <i>Check results</i></li> <li>8. Close GUI</li> </ol>	<p>After deleting the first application, list now appears as:</p> <ul style="list-style-type: none"> <li>- Mary,Jane,mjane22, ""</li> </ul>	<p><b>After deleting the first application, jsmith2 application is removed and the application table appears as follows:</b></p> <ul style="list-style-type: none"> <li>- 2, Submitted, mjane22, ""</li> </ul>
<p>Test 6: Load Invalid File (UC2)</p> <p>Hanna Reese</p>	<p>Preconditions: User has started the WolfHire application and the GUI has opened.</p>	<p>positions2.txt loads successfully, CSC 116 PTF is listed as the Active Position and there are 4 Positions total listed from the file. The application table appears as below, reflecting the applications from CSC 116 PTF as the Active Position:</p> <ul style="list-style-type: none"> <li>- 1,Reviewing,cvroach,tnmacnei</li> </ul>	<p><b>After loading in positions2.txt, the 4 positions from the file are listed in the positions dropdown box in the order they appear in the file, and the Active Position is set to the first one in the list, which is CSC 116 PTF. The Application Table is populated with the</b></p>

	<ol style="list-style-type: none"> <li>1. Select <b>Load Positions File</b> from File Menu</li> <li>2. Select <b>test-files</b> folder and click <b>Open</b></li> <li>3. Select <b>positions2.txt</b></li> <li>4. Select <b>Add Position</b> from File Menu</li> <li>5. Enter the following information into the Add Position table: <ul style="list-style-type: none"> <li>- CSC 116 TA</li> <li>- 12</li> <li>- 10</li> </ul> </li> <li>6. Select <b>Load Positions File</b> from the File Menu</li> <li>7. Select <b>test-files</b> folder and then <b>positions6.txt</b></li> <li>8. <i>Check results</i></li> <li>9. Close GUI</li> </ol>	<ul style="list-style-type: none"> <li>- 2,Rejected,carmstr,</li> <li>- 3,Processing,ecarden,tnmacnei</li> <li>- 4,Processing,faceved,tnmacnei</li> <li>- 5, Hired,carmstr,tnmacnei</li> <li>- 7,Inactive,akemp,tnmacnei</li> <li>- 25,Interviewing,hholden,tnmacnei</li> </ul> <p>New Position "CSC 116 TA" is added successfully and is loaded in as the new Active Position, located at the bottom of the positions list (now 5 in total). The application table is now empty because there are no applications in CSC 116 TA.</p> <p>After loading positions6.txt, nothing changes because this file is invalid and therefore skipped by the system.</p> <p>Active Position is still CSC 116 TA and the application table is still empty. There are still 5 total positions in the list. Nothing is changed.</p>	<p><b>applications for position CSC 116 PTF. They appear as follows:</b></p> <ul style="list-style-type: none"> <li>- 1,Reviewing,cvroach,tnmacnei</li> <li>- 2,Rejected,carmstr,</li> <li>- 3,Processing,ecarden,tnmacnei</li> <li>- 4,Processing,faceved,tnmacnei</li> <li>- 5, Hired,carmstr,tnmacnei</li> <li>- 7,Inactive,akemp,tnmacnei</li> <li>- 25,Interviewing,hholden,tnmacnei</li> </ul> <p><b>After adding new Position, CSC 116 TA is set to Active Position. Application table is now empty to reflect the 0 number of applications that CSC 116 TA has. The list of positions is now 5 and has retained the same order as before, with the new position CSC 116 TA now at the bottom of it.</b></p> <p><b>After loading in positions6.txt, system skips the file because it is invalid. Active position is still CSC 116 TA, application table is still empty. Nothing has changed.</b></p>
--	--	--	---