

WolfTracker System Test Plan

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Date: 10/31/24

Introduction

The system test plan tests several different requirements of the WolfTracker program to ensure that the program runs smoothly.

To run the tests, launch the ProjectUI by right clicking on the program and running as a Java Application.

Test Files

File: project1.txt

! CSC 216 Task Log

Debugging

Deployment

Design

Documentation

Implementation

System Test

Unit Test

** Read Project 2 requirements,45,Design*

Read Project 2 requirements

(<https://pages.github.ncsu.edu/engr-csc216-staff/CSC216-SE-Materials/projects/project2/project2-part1.html>)

and identify candidate classes and methods.

** Created CRC Cards,27,Design*

Identified the key classes and created CRC cards. Noted responsibilities, collaborators, and possible state.

** Transferred CRC Cards to UMLetino,35,Design*

Started creating a UML class diagram from the requirements

** Downloaded design proposal and rational template,5,Design*

See (<https://pages.github.ncsu.edu/engr-csc216/projects/project2/project2-part1.html>)

for template link

** Wrote design proposal and rationale,75,Design
Started with UML class diagram description. Incorporated feedback
from Project 1.*

** Identify 5 system tests,20,System Test
Consider 5 major paths through the system when working with
projects, logs, and tasks. How would I use the system
to keep track of my tasks?*

** Created P2P2 skeleton,48,Implementation
Created the skeleton for P2P2.*

** Added Javadoc,65,Documentation
Javadoced skeleton*

** Implemented & Tested POJO,30,Implementation
Implemented the POJO class. Added unit tests
to make sure everything is correct.*

** Implemented file reader class,35,Implementation
Started implementing the reader class by reading in all the
input file and breaking into top-level tokens.*

** Tested reader class,32,Unit Test
Found a bug in my implementation when breaking the text into
tokens.*

** Debugging Reader Bug,15,Debugging
Debugged my file reader bug.*

** Ran System Tests,20,System Test
Ran system tests on project and recorded actual results. They all
passed!*

** Generated Javadoc,15,Documentation
Generated Javadoc and pushed to GitHub finishing the project!*

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
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<p>1. TestLoadProject</p>	<p>Preconditions: ProjectUI program launched</p> <ol style="list-style-type: none"> 1. Click File 2. Click Load Project 3. In the file chooser, select test-files and then click project1.txt 	<p>There should be 7 different categories, sorted as follows:</p> <p><i>Debugging</i> <i>Deployment</i> <i>Design</i> <i>Documentation</i> <i>Implementation</i> <i>System Test</i> <i>Unit Test</i></p> <p>And there should be 14 different logged tasks with the following names:</p> <p><i>*Read Project 2 requirements</i> <i>* Created CRC Cards</i> <i>* Transferred CRC Cards to UMLetino</i> <i>* Downloaded design proposal and rational template</i> <i>* Wrote design proposal and rationale</i> <i>* Identify 5 system tests</i> <i>* Created P2P2</i> <i>* Added Javadoc</i> <i>* Implemented & Tested POJO</i> <i>* Implemented file reader class</i> <i>* Tested reader class</i> <i>* Debugging Reader Bug</i> <i>* Ran System Tests</i> <i>* Generated Javadoc</i></p>	<p>There are 7 Categories listed,</p> <p><i>Debugging</i> <i>Deployment</i> <i>Design</i> <i>Documentation</i> <i>Implementation</i> <i>System Test</i> <i>Unit Test</i></p> <p>And a total of 14 tasks:</p> <p><i>*Read Project 2 requirements</i> <i>* Created CRC Cards</i> <i>* Transferred CRC Cards to UMLetino</i> <i>* Downloaded design proposal and rational template</i> <i>* Wrote design proposal and rationale</i> <i>* Identify 5 system tests</i> <i>* Created P2P2</i> <i>* Added Javadoc</i> <i>* Implemented & Tested POJO</i> <i>* Implemented file reader class</i> <i>* Tested reader class</i> <i>* Debugging Reader Bug</i> <i>* Ran System Tests</i> <i>* Generated Javadoc</i></p>
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2. TestCreateNewProject	<p>Preconditions: ProjectUI program launched and Test 1 passed</p> <ol style="list-style-type: none"> 1. Click File 2. Click New 3. Click No 4. Enter "Project21" as the ProjectName 	<p>The lists of categories and all tasks should be empty and a new project interface should be shown, completely blank. The name of the Project should be "Project 21"</p>	<p>A new Project is created, the logged tasks area is empty, summary statistics is empty, and the project name is Project21.</p>
3. TestRemoveCategory	<p>Preconditions: ProjectUI program launched and Test 1 passed</p> <ol style="list-style-type: none"> 1. Select the System Test category as the Current Category 2. Click Remove Category 3. Click Yes 	<p>The System Test category should be removed and the "Identified 5 system tests" and "Ran System Tests" tasks should also be removed.</p>	<p>The system test category is removed and the 2 tasks related to that category are also removed, resulting in only 12 tasks remaining in Logged Tasks Category.</p>
4. TestErrorRemoveAllTasks	<p>Preconditions: ProjectUI program launched and Test 1 passed</p> <ol style="list-style-type: none"> 1. Select the AllTasks Category 2. Click Remove Category 	<p>An error message should appear that states "The All category may not be edited"</p>	<p>A pop up comes up that states "The All Tasks Log may not be edited" with an Ok button to remove the popup.</p>
5. TestAddTask	<p>Preconditions: ProjectUI program launched and Test 1 passed</p> <ol style="list-style-type: none"> 1. Select the Implementation category 2. Enter "Created Task methods" for title, "35" for duration, and "Implemented methods for task class" in description. Then click the Add/Edit button 	<p>A new task should appear in the Implementation category as well as in the All Tasks category. It should have the same title, duration and description as stated in the preconditions.</p>	<p>With Implementation category selected, 4 tasks now show, with the original 3 declared in Test 1 and an additional test with the Title "Created Task methods", duration of 35 and details stating "Implemented methods for task class". This same task is also added to the All Tasks Category.</p>