# WolfTracker System Test Plan

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## Introduction

1. Open the WolfTracker project in Eclipse.
2. Right click on the WolfTrackerGUI class in the Package Explorer.
3. Select Run As > Java Application.

## Test Files

test-files/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.

\* Transfered 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 |
| Test 1: Create Project | Preconditions: WolfTracker application has started, and GUI has loaded.   1. Select **File** 2. Select **New Project** 3. Enter Project Name: “CSC216” and select **OK** 4. Check *results* 5. Close GUI | The Project section displays, “Project Name: CSC216”  The Category section displays “Current Category.” All Tasks is selected in the drop-down box.  The Summary Statistics and Logged Tasks sections remain empty. | Test Passed.  The WolfTracker program started, and the GUI loaded with the appropriate display. The Category section of the program displayed Current Category accurately, with the “All Tasks” log selected in the drop-down box. Since no tasks were added, the Summary Statistics and Logged Tasks sections remained empty. |
| Test 2: Add Category | Preconditions: Test 1 has passed. The “CSC216” project is open.   1. Select **Add Category** 2. Enter Category Name: “Projects” and select **OK** 3. Check *results* 4. Close GUI | The Category drop down box is updated to include the Projects category in alphabetical order.  “Projects” is now the current category. The list contains no logged tasks, and the count of tasks is zero. The Summary Statistics min, max, and average durations are blank. | Test Passed.  Test 1 passed prior to Test 2. After adding a new category “Projects,” the Category drop-down box was updated to include the new category. The drop-down box displayed “All Tasks” and “Projects,” and “Projects” was selected as the Current Category. The Logged Tasks section remained empty, and the count of tasks was zero. The Summary Statistics also remained blank. |
| Test 3: Log New Task | Preconditions: Test 2 has passed. The “CSC216” project is open.   1. Select the **Project** category 2. Enter Task Title: “Created P1 Skeleton”, Duration: “45”, and Description: “Completed the skeleton for P1” 3. Select **Add** 4. Check *results* 5. Close GUI | The task was added to the end of the log in the current category, Projects.  Logged Tasks for CSC216 displays:  -Task Title: Created P1 Skeleton, Duration: 45, Category: Project | Test Passed.  Test 2 passed prior to Test 3. After adding a task to the Project category, the task populated in the Logged Tasks section for CSC 216. It displayed “Created P1 Skeleton” for the task title, 45 for the duration, and “Project” for the category. |
| Test 4: Load Project | Preconditions: WolfTracker application has started, and GUI has loaded.   1. From the file menu, select **Load Project** 2. Select **test-files/project1.txt** 3. Check *results* 4. Close GUI | The application populates with categories and logged tasks.  Categories are sorted by name after All Tasks (the current category), which is listed first:   * All Tasks * Debugging * Deployment * Design * Documentation * Implementation * System Test * Unit Test   -Project Name: CSC 216 Task Log  -Current Category: All Tasks  Logged Tasks displays:  -Read Project 2 Requirements, 45, Design  -Created CRC Cards, 27, Design  -Transferred CRC Cards to UMLetino, 35, Design  -Downloaded design proposal and rationale template, 5, Design  - Wrote design proposal and rationale,75,Design  - Identify 5 system tests,20,System Test  - Created P2P2 skeleton,48,Implementation  - Added Javadoc,65,Documentation  - Implemented & Tested POJO,30,Implementation  - Implemented file reader class,35,Implementation  - Tested reader class,32,Unit Test  - Debugging Reader Bug,15,Debugging  - Ran System Tests,20,System Test  - Generated Javadoc,15,Documentation  Summary Statistics:   * Number of Logged Tasks: 14 * Min Duration: 5 * Max Duration: 75 * Average Duration: 33.4 | Test Passed.  The WolfTracker program started, and the GUI loaded with the appropriate display. After loading project1.txt from the test-files folder, the program populated with the appropriate categories and logged tasks. The drop-down box contained categories sorted by name, with the All Tasks category listed first: All Tasks, Debugging, Deployment, Design, Documentation, Implementation, System Test, and lastly, Unit Test.  The project name was CSC 216 Task Log and the current category had the all tasks log selected.  The Logged Tasks section displayed:  Logged Tasks displays:  -Read Project 2 Requirements, 45, Design  -Created CRC Cards, 27, Design  -Transferred CRC Cards to UMLetino, 35, Design  -Downloaded design proposal and rationale template, 5, Design  - Wrote design proposal and rationale,75,Design  - Identify 5 system tests,20,System Test  - Created P2P2 skeleton,48,Implementation  - Added Javadoc,65,Documentation  - Implemented & Tested POJO,30,Implementation  - Implemented file reader class,35,Implementation  - Tested reader class,32,Unit Test  - Debugging Reader Bug,15,Debugging  - Ran System Tests,20,System Test  - Generated Javadoc,15,Documentation  The Summary Statistics for the All Tasks category was presented to be 14 as the task count, 5 as the minimum duration, 75 as the maximum duration, and 33.4 as the average duration. |
| Test 5: Remove Task | Preconditions: Test 4 has passed. CSC 216 Task Log is open.   1. Select the second task, **Created CRC Cards** 2. Check *results* 3. Select **Remove** 4. Check *results* 5. Close GUI | The task area populated with information for the task.  -Task Title: Created CRC Cards  -Duration: 27  -Description: Identified the key classes and created CRC cards. Noted responsibilities, collaborators, and possible state.  The task is removed from the list. The summary statistics update accordingly. | Test Passed.  Test 4 passed prior to Test 5. After selecting the second task in the Logged Tasks list, the task area populated with the appropriate information for the task. The task title was “Created CRC Cards,” the duration was 27, and the description was “Identified the key classes and created CRC cards. Noted responsibilities, collaborators, and possible state.” After selecting remove, the task was removed from the list and the summary statistics were updated to reflect the change. |