

Project 1 – Ecosystem Simulator: Black Box Test Plan

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Introduction

Provide a brief overview of your black box test plan. Describe how you would start your application.

Test ID	Description	Expected Results	Actual Results
Test 1 – File Does Not Exist (ndboard)	<p>Preconditions: testFile.txt does not exist</p> <p>Enter test-files/testFileFake into the Program arguments text field under the Arguments tab of the Run Configurations window.</p> <p>Press enter.</p> <p>Press run button.</p> <p><i>Check Results</i></p>	<p>A pop-up window is displayed with “Specified file does not exist.”</p> <p>Program ends execution.</p>	THE ERROR DOES NOT APPEAR.
Test 2 – File is Invalid Format (ndboard)	<p>Preconditions: invalidFile.txt does exist, and contains nothing. It is an empty txt document.</p> <p>Enter invalidFile.txt into the Program arguments text field under the Arguments tab of the Run Configurations window.</p> <p>Press enter.</p> <p>Press run button.</p> <p><i>Check Results</i></p>	<p>A pop-up window is displayed with “Invalid file format.”</p> <p>Program ends execution.</p>	THE ERROR DOES NOT APPEAR.
Test 3 – File is Valid Format	<p>Preconditions: testFile.txt does exist, and contains the specified information below.</p> <p>Enter test-files/testFile into the Program arguments text field under the Arguments tab of the Run Configurations window.</p> <p>Press enter.</p> <p>Press run button.</p> <p><i>Check Results</i></p>	<p>The Ecosystem Simulator window appears. “Total steps” should contain 0 by default. “Number of steps to run” should be 1 by default. The grid should contain the same arrangement as the test file below, with the default colors of green, orange, and red. The following species should be listed underneath: Great Grey Owl, Frog, Mouse, & Insect.</p>	The GUI initializes are described.

Required Files:

invalidFile.txt - empty txt file

validFile.txt - a valid test file that contains the information below exactly

```
4
O Great Gray Owl
M Mouse
F Frog
I Insect
..O.M.M.III...OM.MMM
..MMI...MMMM...OIO..
.M.O.....O..O..O..
.OMMMM.IIIIIIIII.MM.
.....F....F.....
.OOMMMMIIIIMMMMOIM.O
....II.....IIII.....
..OO...III.MMMM.III.
.....IOO.III.
.IIII.....MMI.....
...F....FFF.....
OMIOMIOMIOMIOMIOM
.....
.OMIMIMIMIM.MIMI.O..
IIMIOIIO....OO..II.M
.....IIII.MMM.OOOO.
.....MM....MM....M.
.....O..F.I.
OO.MMMMM...IIIIIMMM
MMIMIMIMIMIMIMIMIMIM
```

Document Revision History

Date	Author	Change Description
9/22	ndboard	• Start and finish all three BBT plans. Referenced the SampleBBTP1 file from the project requirements.
9/20	ndboard	• Start the document