# Lab 02: Black Box Test Plan

## Test Overview

To run the tests:

1. Right click on WolfSchedulerGUI class in the Package Explorer.
2. Select Run As > Java Application

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  Running application | Preconditions: None  Run PackSchedulerGUI.  *Check results* | GUI opens with empty directory and info fields. | GUI opens with empty directory and info fields. |
| Test 2: Loading invalid file | Preconditions: None  Run PackSchedulerGUI.  Click Load Student Directory  Attempt to open file “invalid\_student\_records.txt”  *Check results* | No students are added to student directory | No students are added to student directory |
| Test 3: Load file that does not exist | Preconditions: None  Run PackSchedulerGUI.  Click Load Student Directory  Attempt to open file “invalid”  *Check results* | Message saying “Unable to read file + path” pops up | Message saying “Unable to read file + path” pops up |
| Test 4:  Load valid student records | Preconditions: None  Run PackSchedulerGUI.  Click Load Student Directory  Attempt to open file “”actual\_student\_records.txt”  *Check results* | Student Zahir King is Added to Directory | Student Zahir King is Added to Directory |
| Test 5: Add student | Preconditions: None  Run PackSchedulerGUI.  Fill in fields for student info with James, Ticatic, jrticati, [jrticati@ncsu.edu](mailto:jrticati@ncsu.edu), password, password, 14 | Student James Ticatic is added to directory | Student James Ticatic is added to directory |
| Test 5:  Save Student Directory | Preconditions: Test 4  Save the student directory as “student\_record.txt”  *Check results* | student\_record.txt contains Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,15  James, Ticatic, jrticati, [jrticati@ncsu.edu](mailto:jrticati@ncsu.edu), é\_Žtò\_À§'LÿŸË®\_Y-±"’u\_ ×P=0yŸÒ,14 | student\_record.txt contains Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,15  James, Ticatic, jrticati, [jrticati@ncsu.edu](mailto:jrticati@ncsu.edu), é\_Žtò\_À§'LÿŸË®\_Y-±"’u\_ ×P=0yŸÒ,14 |
| Test 6:  Add student password mismatch | Preconditions: none  Run PackSchedulerGUI.  Fill in fields for student info with James, Ticatic, jrticati, [jrticati@ncsu.edu](mailto:jrticati@ncsu.edu), password, newpassword, 14 | Error message saying “passwords do not much” pops up | Error message saying “passwords do not much” pops up |
| Test 7:  Add student  Invalid first name | ­ Run PackSchedulerGUI.  Leave field for first name empty. Fill in rest of fields with Board, ndboard, [ndboard@ncsu.edu](mailto:ndboard@ncsu.edu), password, password, 14 | Error message saying “Invalid first name” | Error message saying “Invalid first name” |
| Test 8:  Remove student from Student Directory | Preconditions: Test 4  Select King, Zahir under Student Directory  Click “remove student”  *Check results* | The Student Directory is empty | The Student Directory is empty |
| Test 9: Remove Student with none selected | Preconditions: None  Run PackSchedulerGUI.  Make sure the Student Directory is empty  *Check results* | Error message saying “No student selected.” | Error message saying “No student selected.” |
| Test 10: Add student invalid email | Preconditions: None  Run PackSchedulerGUI.  Fill in all fields with Nicholas, Board, ndboard, ndboard.edu, password, password, 14  Click “Add Student”  *Check results* | Error message saying “Invalid email” | Error message saying “Invalid email” |
| Test 11: Add student invalid credits | Preconditions: None  Run PackSchedulerGUI.  Fill in all fields with Nicholas, Board, ndboard, ndboard@ncsu.edu, password, password, 2  Click “Add Student”  *Check results* | Error message saying “Invalid max credits” | Error message saying “Invalid max credits” |
| Test 12: Add student invalid last name | ­ Run PackSchedulerGUI.  Fill first name field with Nicholas. Leave field for last name empty. Fill in rest of the fields with ndboard, [ndboard@ncsu.edu](mailto:ndboard@ncsu.edu), password, password, 14 | Error message saying “Invalid last name” | Error message saying “Invalid last name” |
| Test 13: Add student invalid ID | ­ Run PackSchedulerGUI.  Fill fields with Nicholas, Board. Leave id empty. Fill in rest of fields with [ndboard@ncsu.edu](mailto:ndboard@ncsu.edu), password, password, 14 | Error message saying “Invalid id” | Error message saying “Invalid id” |
| Test 14:  Add student invalid password | Run PackSchedulerGUI.  Fill in fields with Nicholas, Board, ndboard, [ndboard@ncsu.edu](mailto:ndboard@ncsu.edu). Leave password fields empty. Fill in max credits with 14. | Error message saying “Invalid password” | Error message saying “Invalid password” |
| Test 15:  Reset with New Student Directory | Preconditions: Test 4  Click “New Student Directory”  *Check results* | The Student Directory box is empty | The Student Directory box is empty |