# Lab 02: Black Box Test Plan

## Test Overview

<Describe how a test should run the tests. Delete this line in the final report.>

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  Add Student | Preconditions: None  Run PackSchedulerGUI  Click **New Student Directory**  *Check Results*  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | WolfSchedulerGUI loads  Student Directory is empty  Student Directory contains 1 student:  - Margaret Hamilton mhamilton | WolfSchedulerGUI loads  Student Directory is empty  Student Directory contains 1 student:  - Margaret Hamilton mhamilton |
| Test 2: Add Student with duplicate ID | Precondition: Test 1 Has Passed  Fill out the “Student Information” section with the following information:  First Name: **Molly**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mohamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 18  Click **Add Student**  *Check Results*  Click **Ok**  Close GUI | Student Directory contains 1 student:  -Margaret Hamilton hamilton  Pop-up window reads “Student Already in System” | Student Directory contains 1 student:  -Margaret Hamilton hamilton  Pop-up window reads “Student Already in System” |
| Test 3:  Remove Student | Precondition: Test 1 has passed  Select the 1st row in the Student Directory (Margaret Hamilton)  Click **Remove Student**  *Check Results*  Close GUI | Student Directory is empty | Student Directory is empty |
| Test 4:  Load Valid Student Record | Preconditions: None  Run PackSchedulerGUI  Click **Load Student Directory**  Choose test-files > student\_records.txt  Click **Select**  *Check Results*  Close GUI | Student Directory contains 10 students in alphabetical order:     * Demetrius Austin daustin * Lane Berg lberg * Raymond Brennan rbrennan * Emerald Frost efrost * Shannon Hansen shansen * Althea Hicks ahicks * Zahir King zking * Dylan Nolan dnolan Cassandra Schwartz cschwartz * Griffith Stone gstone | Student Directory contains 10 students in alphabetical order:     * Demetrius Austin daustin * Lane Berg lberg * Raymond Brennan rbrennan * Emerald Frost efrost * Shannon Hansen shansen * Althea Hicks ahicks * Zahir King zking * Dylan Nolan dnolan Cassandra Schwartz cschwartz * Griffith Stone gstone |
| Test 5:  Save Student Record | Precondition: Test 4 has passed  Click **Save Student Directory**  Choose test-files > student\_records\_new.txt  Click **Save**  *Check results*  Close GUI | student\_records\_new.txt contains 10 students:   * Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0?R??"??u???\7X?F???9?{-O?F?ap?,18 * Lane,Berg,lberg,sociis@non.org,0?R??"??u???\7X?F???9?{-O?F?ap?,14 * Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0?R??"??u???\7X?F???9?{-O?F?ap?,12 * Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0?R??"??u???\7X?F???9?{-O?F?ap?,3 * Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0?R??"??u???\7X?F???9?{-O?F?ap?,14 * Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0?R??"??u???\7X?F???9?{-O?F?ap?,11 * Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0?R??"??u???\7X?F???9?{-O?F?ap?,15 * Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0?R??"??u???\7X?F???9?{-O?F?ap?,5 * Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0?R??"??u???\7X?F???9?{-O?F?ap?,4 * Griffith,Stone,gstone,porta@magnamalesuadavel.net,0?R??"??u???\7X?F???9?{-O?F?ap?,17 | student\_records\_new.txt contains 10 students:   * Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0?R??"??u???\7X?F???9?{-O?F?ap?,18 * Lane,Berg,lberg,sociis@non.org,0?R??"??u???\7X?F???9?{-O?F?ap?,14 * Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0?R??"??u???\7X?F???9?{-O?F?ap?,12 * Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0?R??"??u???\7X?F???9?{-O?F?ap?,3 * Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0?R??"??u???\7X?F???9?{-O?F?ap?,14 * Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0?R??"??u???\7X?F???9?{-O?F?ap?,11 * Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0?R??"??u???\7X?F???9?{-O?F?ap?,15 * Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0?R??"??u???\7X?F???9?{-O?F?ap?,5 * Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0?R??"??u???\7X?F???9?{-O?F?ap?,4 * Griffith,Stone,gstone,porta@magnamalesuadavel.net,0?R??"??u???\7X?F???9?{-O?F?ap?,17 |
| Test 6: Invalid Remove Student | Precondition: Test 4 has passed  Make sure that no row in the Student Directory is selected (if there is a row selected, restart the test)  Click **Remove** **Student**  *Check results*  Click **OK**  Close GUI | Pop-up window reads “No student selected.” | Pop-up window reads “No student selected.” |
| Test 7:  Invalid Email Address | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Password: **password**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Add **mhamAtncsu.com** to email  Click **Add Student**  *Check Results*  Add **mham@ncsuDOTcom** to email  Click **Add Student**  *Check Results*  Add **m.ham@ncsuDOTcom** to email  Click **Add Student**  *Check Results*  Close GUI | Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.” | Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.”  Pop-up window appears: “Invalid email.” |
| Test 8:  Load Invalid Student Record | Precondition: None  Run PackSchedulerGUI  Click **Load Student Directory**  Choose test-files > invalid\_student\_records.txt  Click **Select**  *Check Results*  Close GUI | Student Directory is empty | Student Directory is empty |
| Test 9:  Invalid First Name | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: “Invalid first name” | Popup window: “Invalid first name” |
| Test 10:  Invalid Last Name | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: "Invalid last name” | Popup window: "Invalid last name” |
| Test 11:  Invalid id | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: "Invalid Id” | Popup window: "Invalid Id” |
| Test 12:  Invalid password | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: "Invalid password” | Popup window: "Invalid password” |
| Test 13: Invalid Repeat Password | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: "Invalid password” | Popup window: "Invalid password” |
| Test 14: Password Mismatch | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **pass**  Repeat Password: **password**  Max Credits: 15  Click **Add Student**  *Check Results*  Close GUI | Popup window: “Passwords do not match” | Popup window: “Passwords do not match” |
| Test 15: Invalid Max Credits | Preconditions: None  Run PackSchedulerGUI  Fill out the “Student Information” section with the following information:  First Name: **Margaret**  Last Name: **Hamilton**  ID: **mhamilton**  Email: **mhamilton@ncsu.edu**  Password: **password**  Repeat Password: **password**  Max Credits: 2  Click **Add Student**  *Check Results*  Change Max Credits to : 19  Click **Add Student**  *Check Results*  Close GUI | Popup window “Invalid max credit hours”  Popup window “Invalid max credit hours” | Popup window “Invalid max credit hours”  Popup window “Invalid max credit hours” |