# Lab 3: Black Box Test Plan

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Open GUI | Preconditions: None  Run PackSchedulerGUI.  *Check results*  Close GUI | WolfSchdulerGUI loads  Student Directory is empty  Student information only shows labels | WolfSchdulerGUI loads  Student Directory is empty  Student information only shows labels |
| Test 2:  Invalid File | Preconditions: None  Run PackSchedulerGUI.  In the **Load Student Directory** FileChooser dialog select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results*  Close GUI | WolfSchdulerGUI loads  Student Directory is empty  Student information only shows labels | WolfSchdulerGUI loads  Student Directory is empty  Student information only shows labels |
| Test 3: Valid File | Preconditions: None  Run PackSchedulerGUI.  In the **Load Student Directory** FileChooser dialog select: test-files/student\_records.txt  Click **Select**  *Check results*  Close GUI | PackSchdulerGUI loads  Student Directory contains 12 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Zahir,King,zkings * Zahir,Kings,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student information only shows labels | PackSchdulerGUI loads  Student Directory contains 12 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Zahir,King,zkings * Zahir,Kings,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student information only shows labels |
| Test4:  Add no student | Preconditions: Test 3 has passed  Make sure that no information is written in Student information  Click **Add Student**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “Max credits must be a positive number between 3 and 18” is displayed. | A pop-up dialog stating “Max credits must be a positive number between 3 and 18” is displayed. |
| Test 5:  Add | Preconditions: Test 3 has passed  In Student information, type in:   * First Name: Jacob * Last Name: Frye * ID: Jfrye * Email: JFrye@JFrye.edu * Password: pw * Repeat Password: pw * Max Credit: 7   Click **Add Student**  *Check results*  Close GUI | Student Directory has one more line on the top:   * Jacob,Frye,Jfrye | Student Directory has one more line on the top:   * Jacob,Frye,Jfrye |
| Test 6:  Remove no student | Preconditions: Test 3 and Test 5 have passed  Make sure that no row in the Student Directory table is selected (if there is a row selected, restart the test)  Click **Remove Student**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “No student selected” is displayed. | A pop-up dialog stating “No student selected” is displayed. |
| Test 7:  Add same student | Preconditions: Test 3 and Test 5 have passed  In Student information, type in again:   * First Name: Jacob * Last Name: Frye * ID: Jfrye * Email: JFrye@JFrye.edu * Password: pw * Repeat Password: pw * Max Credit: 7 | A pop-up dialog stating “Student already in system” is displayed. | A pop-up dialog stating “Student already in system” is displayed. |
| Test 8: New Student Directory | Preconditions: Test 3 and Test 5 have passed  Click **New Student Directory**  *Check results*  Close GUI | Student Directory table is empty | Student Directory table is empty |
| Test 9:  Add Several | Preconditions: Test 3,Test 5 and Test7 have passed  In Student information, type in:   * First Name: Jacob * Last Name: Frye * ID: Jfrye * Email: JFrye@JFrye.edu * Password: pw * Repeat Password: pw   Max Credit: 7  Click **Add Student**  In Student information, type in:   * First Name: Evie * Last Name: Frye * ID: Efrye * Email: EFrye@EFrye.edu * Password: pw * Repeat Password: pw * Max credit: 8   Click **Add Student**  In Student information, type in:   * First Name: Conner * Last Name: Kenway * ID: Ckenway * Email: Ckenway@Ckenway.edu * Password: pw * Repeat Password: pw * Max credit: 12   Click **Add Student**  *Check results*  Close GUI | Student Directory table shows 3 students:   * Evie,Frye,Efrye * Jacob,Frye,Jfrye * Conner,Kenway,Ckenway | Student Directory table shows 3 students:   * Evie,Frye,Efrye * Jacob,Frye,Jfrye * Conner,Kenway,Ckenway |
| Test 10:  Remove | Preconditions: Test 3, Test 9 have passed  Select 2nd row in Student Directory  (Evie,Frye,Efrye)  Click **Remove Student**  *Check results*  Close GUI | Student Directory table shows 2 students:   * Jacob,Frye,Jfrye * Conner,Kenway,Ckenway | Student Directory table shows 2 students:   * Jacob,Frye,Jfrye   Conner,Kenway,Ckenway |
| Test 11:  Add student with incorrect credits | Preconditions: Test 3 and Test 5 have passed  In Student information, type in:   * First Name: Conner * Last Name: Kenway * ID: Ckenway * Email: Ckenway@Ckenway.edu * Password: pw * Repeat Password: pw * Max credit: -1   Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Invalid max credits” is displayed. | A pop-up dialog stating “Invalid max credits” is displayed. |
| Test 12:  Add student with incorrect email | Preconditions: Test 3 and Test 5 have passed  In Student information, type in:   * First Name: Conner * Last Name: Kenway * ID: Ckenway * Email: Ckenway.edu * Password: pw * Repeat Password: pw * Max credit: 12   Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Invalid email” is displayed. | A pop-up dialog stating “Invalid email” is displayed. |
| Test 13: Add students with empty First Name | Preconditions: Test 3 and Test 5 have passed  In Student information, type in:   * First Name: * Last Name: Kenway * ID: Ckenway * Email: Ckenway@Ckenway.edu * Password: pw * Repeat Password: pw * Max credit: 12   Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Invalid first name” is displayed. | A pop-up dialog stating “Invalid first name” is displayed. |
| Test 14:  Export | Preconditions: Test 3 and Tests 9 have passed  Click **Save student directory**  Select test-files folder. Enter the filename actual\_student\_record.txt  Click **Save** (it’s ok to overwrite old results)  *Check results*  Close GUI | Open the test-files folder and open actual\_student\_record.txt in the editor.  The contents should be:  Evie,Frye,Efrye,EFrye@EFrye.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,8  Jacob,Frye,Jfrye,JFrye@JFrye.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,7  Conner,Kenway,Ckenway,Ckenway@Ckenway.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,12 | The contents are:  Evie,Frye,Efrye,EFrye@EFrye.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,8  Jacob,Frye,Jfrye,JFrye@JFrye.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,7  Conner,Kenway,Ckenway,Ckenway@Ckenway.edu,0蒖"鸣u?\7X睩逮?9晎-O頕鈇p?,12 |
| Test 15:  Add student with empty password | Preconditions: Test 3 and Test 5 have passed  In Student information, type in:   * First Name: Conner * Last Name: Kenway * ID: Ckenway * Email: Ckenway@Ckenway.edu * Password: * Repeat Password: pw * Max credit: 12   Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Invalid password” is displayed. | A pop-up dialog stating “Invalid password” is displayed. |