Lab 09: Black Box Test Plan

Test Overview

To run the tests:

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

All tests files should be located in the test-files/ folder.

If you run all tests independently, you can close the GUI between each test. However, the tests are structured so that they may be run in order without shutting down the GUI.

Test ID	Description	Expected Results	Actual Results
T1: Invali d Login	Preconditions: PackSchedulerGUI has loaded		Pop up with message "User doesn't exist."
Logiii	User ID: Iberg Password: pw Click Login	Pop up with message "User doesn't exist."	User ID and password text fields are cleared.
	Click OK Click Clear	User ID and password text fields are cleared.	
T2: Regi strar Login	Preconditions: PackSchedulerGUI has loaded User ID: registrar Password: Regi5tr@r Click Login	View switches to Registrar panel with Student Directory functionality displayed	View switches to Registrar panel with Student Directory functionality displayed

T3: Load Stud ent Direc tory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) Click Load Student Directory Select test-files/student_records.txt Click Select	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.
T4: Add Invali d Stud ent - no first nam e	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section:	Error Message: Invalid first name	Error Message: Invalid first name
T5: Add Invali d Stud ent - no last	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name:		Error Message: Invalid last name

nam e	 ID: pwilkins Email: pwilkins@ncsu.edu Password: pw Repeat Password: pw Max Credits: 15 Click Add Student Click OK 	Error Message: Invalid last name	
T6: Add Invali d Stud ent - no id	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: First Name: Patience Last Name: Wilkins ID: Email: pwilkins@ncsu.edu Password: pw Repeat Password: pw Max Credits: 15 Click Add Student Click OK	Error Message: Invalid id	Error Message: Invalid id
T7: Add Invali d Stud ent - no email	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: • Password: pw		Error Message: Invalid email

	 Repeat Password: pw Max Credits: 15 Click Add Student 	Error Message: Invalid email	
T8: Add Invali d Stud ent - invali d email	PPreconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkinsncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student Click OK	Error Message: Invalid email	Error Message: Invalid email
T9: Add Invali d Stud ent - pass word s don't matc h	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw1 • Repeat Password: pw • Max Credits: 15 Click Add Student	Error Message: Passwords do not match	Error Message: Passwords do not match

	Click OK		
T10: Add Invali d Stud ent - zero max credit s	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section:	Error Message: Invalid max credits	Error Message: Invalid max credits
T11: Add Invali d Stud ent - 11 max credit s	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 19 Click Add Student Click OK	Error Message: Invalid max credits	Error Message: Invalid max credits

T12: Add Stud ent - end	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student Click OK	Patience Wilkins is added to the Student Directory and is the last student in the list.	Patience Wilkins is added to the Student Directory and is the last student in the list.
T13: Add Stud ent - middl e	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Rylee • Last Name: Puckett • ID: rpuckett • Email: rpuckett@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student Click OK	Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz	Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz
T14: Add Stud	Preconditions: PackSchedulerGUI has		Melvin Acevedo is added to the Student

ent - front	loaded and registrar user is logged in (T2). T3 has run. Enter the following in the Student Information section: • First Name: Melvin • Last Name: Acevedo • ID: macevedo • Email: macevedo@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student Click OK	Melvin Acevedo is added to the Student Directory and is the first student in the list.	Directory and is the first student in the list.
T15: Rem ove Stud ent - no selec tion	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). Click Remove Student	Error Message: No student selected	Error Message: No student selected
T16: Rem ove Stud ent - middl e	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). Select Shannon Hansen Click Remove student	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list
T17: Rem ove Stud	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.		Melvin Acevedo is removed. Demetrius

ent - front	Select Melvin Acevedo Click Remove student	Melvin Acevedo is removed. Demetrius Austin is front of the directory	Austin is front of the directory
T18: Rem ove Stud ent - back	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12 has run. Select Patience Wilkins Click Remove student	Patience Wilkins is removed. Griffith Stone is last in the directory	Patience Wilkins is removed. Griffith Stone is last in the directory
T19: Save Stud ent Direc tory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run. Click Save Student Directory Select test-files directory and name the file t19_student_directory.txt.	Contents should be (note that the password hash may be different due to encoding): Demetrius, Austin, daustin, Curabitur.egestas.nunc@placeratorcilacus.co.uk, 0É Rú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ, 18 Lane, Berg, Iberg, sociis@non.org, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ, 14 Raymond, Brennan, rbrennan, litora.torquent@pellentesquemassalobortis.ca, 0É Rú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ, 12 Emerald, Frost, efrost, adipiscing@acipsumPhasellus.edu, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ, 3 Althea, Hicks, ahicks, Phase Ilus.dapibus@luctusfelis.com, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ, 31	Contents should be (note that the password hash may be different due to encoding): Demetrius, Austin, daustin, Curabitur. egestas. nunc@placeratorcilacus.co.uk, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,18 Lane, Berg, Iberg, sociis@non.org, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,14 Raymond, Brennan, rbrennan, litora. torquent@pellentesquemassalobortis.ca, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,12 Emerald, Frost, efrost, adipiscing@acipsumPhasellus. edu, 0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,3 Althea, Hicks, ahicks, Phasellus. dapibus@luctusfelis.com, 0ÉRú±"ÃùuŸ¦Ü\7X²F′þâ9•{-OîFâapÄ,11

		Zahir,King,zking,orci.Done c@ametmassaQuisque.co m,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,placer at.Cras.dictum@dictum.ne t,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,15 Cassandra,Schwartz,csch wartz,semper@imperdieto rnare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,4 Griffith,Stone,gstone,porta@magnamalesuadavel.ne t,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ	Zahir,King,zking,orci.Do nec@ametmassaQuisqu e.com,0ÉRú±"ÃùuŸ¦Ù\7 X²F′þâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,plac erat.Cras.dictum@dictu m.net,0ÉRú±"ÃùuŸ¦Ù\7 X²F′þâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉR ú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,15 Cassandra,Schwartz,cs chwartz,semper@imper dietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,4 Griffith,Stone,gstone,por ta@magnamalesuadave l.net,0ÉRú±"ÃùuŸ¦Ù\7X²F′þâ9•{-OîFâapÄ,17
T20: New Stud ent Direc tory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run. Click New Student Directory	An empty student directory is shown.	An empty student directory is shown.
T21: Add Stud ent - first	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run. Enter the following in the Student Information section: • First Name: Patience • Last Name: Wilkins • ID: pwilkins		

Max Credits: 15 Click Add Student Click OK T22: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) T23: PackSchedulerGUI has loaded and registrar user is logged in (T2) Catal og Click Load Course Catalog Select Click Select T24: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) T24: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) T24: Preconditions: PackSchedulerGUI has loaded and registrar user is loaded and registrar user			Т	<u></u>
T22: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) Catal og Click Course Catalog T23: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2) Catal og Click Load Course Catalog Select starting with CSC116-001 and ending with CSC116-001 and ending with CSC230-001 T24: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Cour se - Enter the following in the Course Information section: • Course Catalog functionality displayed Course Catalog functionality displayed 8 courses are listed starting with CSC116-001 and ending with CSC2116-001 and ending with CSC230-001 Enter the following in the Course Information section: • Course Name: • Course Name: • Course Name: • Course Title: Computer Organization and		pwilkins@ncsu.eduPassword: pwRepeat Password: pwMax Credits: 15	to the Student Directory and is the only student in	added to the Student Directory and is the only
Cour se Catal og view Click Course Catalog view Click Course Catalog T23:		Click OK		
Load Cour see logged in (T2) Catal og Click Load Course Catalog Select test-files/course_records.txt Click Select T24: Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Cour se - no Course Information section: nam e Course Title: Computer Organization and endispistrar user is logged in (T2). T23 has run.	Cour se Catal og	PackSchedulerGUI has loaded and registrar user is logged in (T2).	1	_
Og Click Load Course Catalog Select test-files/course_records.txt Click Select T24: Add Invali Invali Invali Invali Se - Ino Course Information section: Pack Scheduler GUI has Invali	Load Cour se	PackSchedulerGUI has loaded and registrar user is		
Add Invali loaded and registrar user is d logged in (T2). T23 has run. Cour se - Enter the following in the Course Information section: nam • Course Name: • Course Title: Computer Organization and		Select test-files/course_records.txt	starting with CSC116-001 and ending with	starting with CSC116-001 and ending with
Course Section: 001	Add Invali d Cour se - no nam	PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:		Error Message: Invalid

	 Instructor Id: lasher Enrollment Cap: 30 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Tuesday & Thursday Click Add Course Click OK	Error Message: Invalid name	
T25: Add Invali d Cour se - no title	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	Error Message: Invalid title	Error Message: Invalid title
T26: Add Invali d Cour se - no secti on	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section: • Course Name: CSC236		

	 Course Title: Computer Organization and Assembly Language Course Section: Credits: 3 Instructor Id: lasher Enrollment Cap: 30 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Tuesday & Thursday Click Add Course 	Error Message: Invalid section	Error Message: Invalid title
T27: Add Invali d Cour se - secti on too short	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	Error Message: Invalid section	Error Message: Invalid section

T28: Add Invali d Cour se - secti on too long	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	Error Message: Invalid section	Error Message: Invalid section
T29: Add Invali d Cour se - no instru ctor id	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	Error Message: Invalid instructor id	Error Message: Invalid instructor id

	 Instructor Id: Enrollment Cap: 30 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Tuesday & Thursday Click Add Course Click OK		
T30: Add Invali d Cour se - end time after start time	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	Error Message: Invalid meeting times	Error Message: Invalid meeting times
T31: Add Invali d Cour se -	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.		

no meeti ng days	Enter the following in the Course Information section: Course Name: CSC236 Course Title: Computer Organization and Assembly Language Course Section: 001 Credits: 3 Instructor Id: lasher Enrollment Cap: 30 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Click Add Course	Error Message: Invalid meeting days	Error Message: Invalid meeting days
T32: Add Cour se - end	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	CSC236-001 is added to the list at the end following CSC230-001	CSC236-001 is added to the list at the end following CSC230-001

	Click Add Course		
	Click OK		
T33: Add Cour se - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:	CSC113-001 is added to the list at the front and is followed by CSC116-001.	CSC113-001 is added to the list at the front and is followed by CSC116-001.
T34: Add Cour se - middl e	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section:		

	 Course Section: 006 Credits: 3 Instructor Id: jdyoung2 Enrollment Cap: 30 Start Time: 10:40 AM End Time: 12:30 PM Meeting Days: Tuesday & Thursday Click Add Course Click OK	CSC116-006 is added to the list between CSC116-003 and CSC216-001.	CSC116-006 is added to the list between CSC116-003 and CSC216-001.
T35: Rem ove Cour se - no selec tion	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). Click Remove Course	Error Message: No course selected	Error Message: No course selected
T36: Rem ove Cour se - middl e	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). Select CSC216-001 Click Remove Course	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.
T37: Rem ove Cour se - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run. Select CSC113-001 Click Remove Course	CSC113-001 is removed. CSC116-001 is the first course in the catalog	CSC113-001 is removed. CSC116-001 is the first course in the catalog

T38:	Preconditions:		
Rem	PackSchedulerGUI has		
ove	loaded and registrar user is		
Cour	logged in (T2). T32 has run.		
se -	109904 111 (12). 102 1143 1411.		CSC236-001 is
back	Select CSC236-001	CSC236-001 is removed.	removed.
Back		CSC230-001 is the last	CSC230-001 is the last
	Click Remove Course	course in the catalog	course in the catalog
T39:	Preconditions:	Contents should be:	Contents are:
Save	PackSchedulerGUI has		
Cour	loaded and registrar user is	CSC116,Intro to	CSC116,Intro to
se	logged in (T2). T32-T38 have	Programming -	Programming -
Catal	run.	Java,001,3,jdyoung2,MW,	Java,001,3,jdyoung2,M
og		910,1100	W,910,1100
	Click Save Course Catalog	CSC116,Intro to	CSC116,Intro to
		Programming -	Programming -
	Select test-files directory and	Java,002,3,spbalik,MW,11	Java,002,3,spbalik,MW,
	name the file	20,1310	1120,1310
	t39_course_catalog.txt.	CSC116,Intro to	CSC116,Intro to
		Programming -	Programming -
		Java,003,3,tbdimitr,TH,11	Java,003,3,tbdimitr,TH,1
		20,1310	120,1310
		CSC116,Java,006,3,jdyou	CSC116,Java,006,3,jdy
		ng2,TH,1040,1230	oung2,TH,1040,1230
		CSC216,Programming	CSC216,Programming
		Concepts -	Concepts -
		Java,002,4,jtking,MW,133	Java,002,4,jtking,MW,13
		0,1445	30,1445
		CSC216,Programming	CSC216,Programming
		Concepts -	Concepts -
		Java,601,4,jep,A	Java,601,4,jep,A
		CSC226,Discrete	CSC226,Discrete
		Mathematics for Computer	Mathematics for
		Scientists,001,3,tmbarnes,	Computer
		MWF,935,1025	Scientists,001,3,tmbarn
		CSC230,C and Software	es,MWF,935,1025
		Tools,001,3,dbsturgi,MW,	CSC230,C and Software
		1145,1300	Tools,001,3,dbsturgi,M W,1145,1300

T40: New Cour se Catal og	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run. Click New Course Catalog	An empty course catalog is shown.	An empty course catalog is shown.
T41: Add Cour se - first	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run. Enter the following in the Course Information section:	CSC216-601 is added to the list	CSC216-601 is added to the list
T42: Logo ut	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). Click Logout	User is returned to the Login view	User is returned to the Login view
T43: Login	Preconditions: PackSchedulerGUI has		

Stud ent	loaded and registrar user is logged in (T2). T21 has run		
	User ID: pwilkins Password: pw	pwilkins is logged in and is switched to the user view.	pwilkins is logged in and is switched to the user
	Click: Login	All that is shown is a Logout button.	view. All that is shown is a Logout button.