

System Test Plan System Test Plan

Document Author(s): William Morgan

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Introduction

This system test plan is intended to test the overall functionality of the SystemTestPlan program. This document is intended to test each use case of the SystemTestPlan program.

Instructions to run the GUI:

1. Open Eclipse and select the SystemTestPlan project
2. Ensure that SystemTestPlanGUI is selected as the file
3. Either right click and select run as Java program, or use run button on the top bar

The GUI should open to the File Menu. All files used for testing are located in the test-files/ folder.

Files that are used in the system test plan are shown below:

STPTestFile.txt

```
! WolfScheduler
# Invalid File,Equivalence Class
* 1. Run WolfScheduler GUI
2. In the Load Course Catalog File Chooser dialog select:
testfiles/invalid_course_records.txt
3. Click Select
4. Check Results
5. Close GUI
* WolfSchedulerGUI loads
Course Catalog is empty
My Schedule is empty
Course Details only shows labels
- PASS: everything is empty
- FAIL: courses are listed
- PASS: everything is empty
# Valid File,Requirements
* 1. Run WolfScheduler GUI
2. In the Load Course Catalog File Chooser dialog select:
testfiles/_course_records.txt
3. Click Select
4. Check Results
5. Close GUI
* Course catalog contains 13 courses
# Add No Selection,Invalid
* Precondition: Valid File test has passed
1. Make sure that no row in the Course Catalog table is selected
2. Click Add Course
3. Check results
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4. Click OK
5. Close GUI
* A pop up dialog stating "No course is selected in the catalog." is
displayed.
- FAIL: no pop up displays
! PackScheduler
# T24 Add new course,Requirements
* Preconditions: PackSchedulerGUI has loaded and registrar user is logged in
(T2). T23 has run
1. Enter the following course information:
Course Name: CSC 236
Course Title: Computer Organization and Assembly Language
Course Section: 001
Credits: 3
Instructor Id: lasher
Start Time: 10:15AM
End Time: 11:30AM
Meeting Days: Tuesday & Thursday
Click Add Course
Click OK
* Course is added to the list in the appropriate location
- PASS: course added (Lab 5)
- FAIL: course not added b/c of invalid course name (Lab 6)
# Invalid course name,Invalid
* Preconditions: PackSchedulerGUI has loaded and registrar user is logged in
(T2). T23 has run
1. Enter the following course information:
Course Name: CSC236
Course Title: Computer Organization and Assembly Language
Course Section: 001
Credits: 3
Instructor Id: lasher
Start Time: 10:15AM
End Time: 11:30AM
Meeting Days: Tuesday & Thursday
Click Add Course
Click OK
* Error message: Invalid course name
- PASS: correct error message (Lab 5)

```

invalid-record.txt

```

This is an example of a text file with invalid records
# There is no test plan name
- This is not in the correct place
* Go Pack

```

test-save-results.txt

```
! Test Plan 1
# Test 1: New Student, Requirements
* 1. Run PackSchedulerGUI, login with information
2. Enter the following:
First Name: "Jack"
Last Name: "McChew"
ID: "jmchew"
Email: jmchew@edu.com
Password: Password
Repeat Password: Password
Max Credits: 18
3. Click Add student
4. Check results
* PackSchedulerGUI loads with empty student directory
Student Directory now has one entry with the following information:
Jack McChew jmchew
```

Test ID	Description	Expected Results	Actual Results
Test 1: Load System State (UC1) Requirements William Morgan	Preconditions: None 1. Run SystemTestPlanGUI 2. In the File Menu, select Load Test Plan(s) 3. Browse to test-files/STPTestFile.txt 4. Click Open 5. Check results	The contents are loaded into the main GUI screen. Test Plans contains the following entries, and Failing Tests is the current test plan: T24 Add new course, Requirements, PackScheduler Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler No test case is currently selected.	Failing tests is the current test plan in the test plans pane. There are 3 cases listed in the correct order with the correct information according to the expected results: T24 Add new course, Requirements, PackScheduler Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler A test case is not selected
Test 2: Load System State Invalid William Morgan [Invalid Record](UC1)	Preconditions: None 1. Run SystemTestPlanGUI 2. In the File Menu, select Load Test Plan(s) 3. Browse to test-files/invalid-record.txt 4. Click Open 5. Check results	A pop up with the dialog "Unable to load file." Appears. The user is directed back to the application.	Since the project does not start with a "!", the entire file is invalid, and a pop up saying "Unable to load file appears" User is directed back to the application
Test 3: List Test Cases Current Test Plan Requirements	Preconditions: test 1 passed 1. Ensure Failing Tests is the first entry in the Current Test Plans drop down	The following entries should be in this order in the Test Cases table: Invalid File, Equivalence Class, PASS	Failing Tests is the first test case in the drop down. When WolfScheduler is selected the table shows the correct test cases (3 of

William Morgan (UC8) (UC4)	1. Select "WolfScheduler" under the Current Test Plans drop down 2. Check Test Cases table	Valid File, Requirements, FAIL Add No Selection, Invalid, FAIL	them) in the correct order, with the correct information displayed.
Test 4: Clear System State Requirements William Morgan (UC3)	Preconditions: Test 1 passed 1. Select the option to Clear Test Plan(s) from the file menu 2. Check results	The system should remove all the test plans and test cases The test cases table should be cleared and is now empty.	A confirmation dialog appears, upon clicking no, the system state is cleared and the test cases and plans are removed from the program.
Test 5: Add a Test Plan Requirements William Morgan (UC5)	Preconditions: None 1. Run SystemTestPlanGUI 2. Click Add Test Plan in the main screen menu 3. Enter "Test Plan 1" as the name 4. Click OK 5. check results	The dropdown menu for Current Test Plan now includes the new plan inserted in alphabetical order The Current Test Plan is now "Test Plan 1" The Test Cases table has zero entries. The number of failing test cases is zero	The Test plan is added in alphabetical order and the leading whitespace is deleted so that the name is "Test Plan 1" Test Plan 1 is current test plan The test cases table has no entries Number of failing test cases is zero
Test 6: Add a Test Plan [Invalid Name] William Morgan (UC5)	Preconditions: None 1. Run SystemTestPlanGUI 2. Click Add Test Plan in the main screen menu 3. Click OK 4. check results	A pop up with the message "Invalid name." is displayed. The user is returned to the main screen. The new test plan is not added.	A pop up with the dialog "Invalid name." is displayed, the user is directed back to the GUI Test Plan is not added
Test 7: Edit a Test Plan Requirements William Morgan (UC6)	Preconditions: Test 1 has passed 1. Select "WolfScheduler" as the current test plan from the Current Test Plan drop down menu 2. Click Edit Test Plan 3. Enter "Edited Plan" as the new name 4. Click OK 5. Check results	The dropdown menu for Current Test Plan now includes the edited plan inserted in alphabetical order The Current Test Plan is now "Edited Plan" The Test Cases table has the same entries as before: Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler	The current test plan includes the edited name in alphabetical order The current test plan is now Edited Plan Test case entries are not altered
Test 8: Edit a Test Plan [Cannot edit Failing Tests] William Morgan	Preconditions: test 1 passed 1. Ensure Failing Tests is the current test plan 2. Click Edit Test Plan 3. Check Results	A pop up with the message "The Failing Tests list may not be edited." Is displayed. The user is returned to the main screen. The failing tests list of test cases still has the following records:	A pop up saying "The Failing Tests list may not be edited." Is displayed. The entries for the failing test list are not altered

(UC6)		T24 Add new course, Requirements, PackScheduler Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler	
Test 9: Remove Current Test Plan Requirements William Morgan (UC7)	Preconditions: test 1 passed 1. Select "WolfScheduler" as the current test plan from the Current Test Plan dropdown menu 2. Click Remove Test Plan 3. Click YES in the confirmation dialog 4. check results	"WolfScheduler" is no longer in the system. The Current Test Plan dropdown no longer shows "WolfScheduler" All failing test cases associated with "WolfScheduler" are removed so that Failing tests has the following: T24 Add new course, Requirements, PackScheduler	WolfScheduler is no longer in the program, and cannot be selected. The current test plan is Failing Test List Failing test removes the WolfScheduler entries and has the one correct entry
Test 10: Remove Current Test Plan [Cannot Remove Failing Tests] William Morgan (UC7)	Preconditions: test 1 passed 1. Select "Failing Tests" as the current test plan from the Current Test Plan dropdown menu 2. Click Remove Test Plan 3. Check results	A pop up with the error message "The Failing Tests list may not be deleted." Is displayed. The user is directed back to the main menu. The Failing Tests list is present and is not altered and has the following records: T24 Add new course, Requirements, PackScheduler Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler	A pop up saying "The Failing Tests list may not be deleted." Is displayed. The entries for the failing test list are not altered
Test 11: Add a Test Case to Current Test Plan Requirements William Morgan (UC9)	Preconditions: test 5 passed 1. Select "Test Plan 1" under the Current Test Plans drop down menu 2. In the Test Case pane, enter the following: Test Case ID: "Test 1: New Staff" Test Type: "Requirements" Description: "1. Run PackSchedulerGUI, login with information 2. Enter the following: First Name: "Jack" Last Name: "McChew" ID: "jmchew" Email: jmchew@edu.com Password: Password Repeat Password: Password Max Credits: 18 3. Click Add student	The following entries should be in this order in the Test Cases table: Test 1: New Staff, Requirements, FAIL	There is one entry with the correct ID, test type and passing status

	<p>4. Check results”</p> <p>Expected Results:</p> <p>“PackSchedulerGUI loads with empty student directory</p> <p>Student Directory now has one entry with the following information:</p> <p>Jack McChew jmchew”</p>		
<p>Test 12:</p> <p>Save Current System State Requirements</p> <p>William Morgan (UC2)</p>	<p>Preconditions: Test 5 and 11 passed</p> <ol style="list-style-type: none"> 1. Click Save Test Plan(s) 2. Browse to test-files/ 3. Input “test-save-results.txt” as the file name 4. Click refresh on project name in eclipse 5. Check file 	<p>The file is created in the test-files/ directory with the name “test-save-results.txt” with the following contents:</p> <pre>! Test Plan 1 # Test 1: New Student, Requirements * 1. Run PackSchedulerGUI, login with information 2. Enter the following: First Name: “Jack” Last Name: “McChew” ID: “jmchew” Email: jmchew@edu.com Password: Password Repeat Password: Password Max Credits: 18 3. Click Add student 4. Check results * PackSchedulerGUI loads with empty student directory Student Directory now has one entry with the following information: Jack McChew jmchew</pre>	<p>The file is created in the correct directory and has the same contents as the given file in the expected results</p>
<p>Test 13:</p> <p>Remove a Test Case From current test plan Requirements</p> <p>William Morgan (UC10)</p>	<p>Preconditions: Test 1 passed</p> <ol style="list-style-type: none"> 1. Select “WolfScheduler” from the Current Test Plans drop down 2. Click on the first test case in the Test Cases table: “Invalid File, Equivalence Class, PASS” 3. Click Remove in the Test Case pane 4. Click Yes on the confirmation dialog 5. Check results 	<p>The Test Cases table should now contain the following entries:</p> <p>Valid File, Requirements, FAIL Add No Selection, Invalid, FAIL</p>	<p>The Test case that is selected is deleted and the test cases table now has the correct two entries:</p> <p>Valid File, Requirements, FAIL Add No Selection, Invalid, FAIL</p>
<p>Test 14:</p> <p>Remove a test case from Failing</p>	<p>Preconditions: Test 1 passed</p> <ol style="list-style-type: none"> 1. Ensure Failing Tests is the current test plan 	<p>A pop up with the error message “The Failing Tests list may not be modified directly.” Is displayed.</p>	<p>The GUI actually grays out the remove button, so this test is not needed.</p>

Tests Invalid William Morgan (UC10)	2. Select the first item in the list: "T24 Add new course, Requirements, PackScheduler" 3. Click Remove in the Test Case pane 4. Check results	The user is returned to the main screen upon clicking OK	
Test 15: Order Test Cases in the Current Test Plan Requirements William Morgan (UC11)	Preconditions: Test 1 passed 1. Select "WolfScheduler" from the Current Test Plans drop down 2. Click on the first test case in the Test Cases table: "Invalid File, Equivalence Class, PASS" 3. Click Move Down 4. Check results	The following entries should be in this order in the Test Cases table: Valid File, Requirements, FAIL Invalid File, Equivalence Class, PASS Add No Selection, Invalid, FAIL	The entry is moved down one spot and is now in the middle of the list. The list is the same as expected: Valid File, Requirements, FAIL Invalid File, Equivalence Class, PASS Add No Selection, Invalid, FAIL
Test 16: Record Actual Test Results Requirements William Morgan (UC12)	Preconditions: test 1 passed 1. Select the first row in the table: "T24 Add new course, Requirements, PackScheduler" 2. In the Test Case pane, input "Course added without space" 3. Select PASS in the drop down 4. Click Record Result 5. Check results	The following entries should now be present in the Test Cases table: Valid File, Requirements, WolfScheduler Add No Selection, Invalid, WolfScheduler	The Test Plan is removed from the failing tests list and there are two wolfScheduler entries identical as to the left in the failing tests list
Test 17: Quit System Test Plan Requirements William Morgan	Preconditions: none 1. Run System Test Plan GUI 2. Add a test plan named "Test" 3. Select the option to quit from the File menu 4. When prompted to save changes, click Cancel 5. Check results	The System Test plan application loads to the main screen, with no information. A dialog asking to save the system state is displayed. The application is quit upon clicking cancel.	The correct save dialog appears after clicking quit Upon clicking cancel, the application closes.

Document Revision History

Date	Author	Change Description
10/18/2022	William Morgan	<ul style="list-style-type: none"> Started document with overview and instructions to start program
10/20/2022	William Morgan	<ul style="list-style-type: none"> Added more tests and completed document
11/14/2022	William Morgan	<ul style="list-style-type: none"> Filled in STP with actual results