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Project 3 - Test Cases

System Testing			
Test Case #	Requirement	Test description	Expected result/output
1	All components of the student's Profile must be completed (assuming all other components are appropriately filled)	<ul style="list-style-type: none"> The TextAreas for the student's profile are left blank and the add or delete button is clicked 	Missing name information.
2	All components of the student's Profile must be completed (assuming all other components are appropriately filled)	<ul style="list-style-type: none"> Every component of the student details are appropriately filled out 	Steven Tan 12/30/2002 added to the roster.
3	Students should be at least 16 years old from the current present day.	<ul style="list-style-type: none"> Create a Student Profile who is not 16 years old. <ul style="list-style-type: none"> Test input: 12/30/2014 	DOB invalid: 12/30/2014 younger than 16 years old.
4	Students could only be added to the roster once	<ul style="list-style-type: none"> Complete the form with valid student details. Try to add the student twice 	[Student's name DOB] is already in the roster.
5	The number of credits completed must be a positive number	<ul style="list-style-type: none"> Input a negative number in the "Credits completed" Text Area 	Credits completed invalid: cannot be negative!
6	If the NonResident button is selected, the user must select either "TriState", "Neither", or "International"	<ul style="list-style-type: none"> Fill out all previous details correctly. Select the NonResident button and then click "Add". 	The Student is selected as Non-Resident. Please select TriState, International or Neither"
7	A proper text file should be loaded to the "Load from File" button.	<ul style="list-style-type: none"> Click Load From File and input a proper text file with legitimate information. 	Students loaded to roster

8	For a student to be enrolled, they must be in the roster first	<ul style="list-style-type: none"> Fill out a Student Profile that is not in the roster and click the enroll button. 	Cannot enroll: [Student name DOB] is not in the roster.
9	For a student to be enrolled, they must be in the roster first	<ul style="list-style-type: none"> Fill out a Student Profile and register them to the roster. Input 13 credits in Enroll and enroll the student 	[Student name DOB] enrolled 13 credits
10	For a student to be removed from the roster, they cannot be currently enrolled.	<ul style="list-style-type: none"> Fill out a Student Profile, register them to the roster, and then enroll them. Click the Remove button in the Roster tab. 	Cannot remove student. Student is currently enrolled!
11	To drop a student from enrollment, they must be currently enrolled in the Enrollment roster.	<ul style="list-style-type: none"> Fill out a student Profile and then add them to the roster. Then click the Drop button in the Enrollment tab 	S Tan 12/30/2002 is not enrolled.
12	Updating enrollment credits does not enroll the student again.	<ul style="list-style-type: none"> Add a student to the roster and then enroll them with a valid amount of credits. Afterwards, enroll the student again with a different amount of credits. Print all students enrolled to verify if the student has not been enrolled twice. 	[Student name DOB] is printed only once.
13	Completing a semester adds the amount of enrolling credits to the student to the profile.	<ul style="list-style-type: none"> Add a student to the roster and then enroll them with a valid amount of credits. Afterwards, complete the semester in the "Print" tab and verify if the student had their credits updated by then printing the roster. 	[Student name DOB] credits completed is updated.
14	Loading an incorrect file or not selecting one gives a corresponding error.	<ul style="list-style-type: none"> Select "Load From File" button but do not select a file when the file dialog appears. 	No text file selected.
15	User is not allowed to add an International/Tristate Resident Student to the roster.	<ul style="list-style-type: none"> Select "Resident" and then select either/both the "International" and "Tristate" options. 	The options for International and Tristate are disabled.

16	Non-residents cannot receive and are ineligible for a scholarship.	<ul style="list-style-type: none"> ● Add a Non-Resident student to the roster and attempt to award the student a scholarship. 	[Student name DOB] is not eligible for the scholarship.
17	Enrolling credits should be a positive value.	<ul style="list-style-type: none"> ● Add a student to the roster and attempt to enroll them with negative credits (- 1). 	Credits enrolled invalid: cannot be negative!
18	Enrolling credits should be between 3 and 24.	<ul style="list-style-type: none"> ● Add a student to the roster and attempt to enroll them with 2 credits (min - 1). 	([Student type]) 2: invalid credits hours.
19	Enrolling credits should be between 3 and 24.	<ul style="list-style-type: none"> ● Add a student to the roster and attempt to enroll them with 25 credits (max + 1). 	([Student type]) 25: invalid credits hours.
20	Error should be printed when no input for enrolling credits is given.	<ul style="list-style-type: none"> ● Add a student to the roster and press the “Enroll” option without entering a credit amount. 	Credits enrolled is missing.
21	Error should be printed when no input for completed credits is given.	<ul style="list-style-type: none"> ● Enter profile details and press the “Add” button. 	Credits completed missing.
22	Program should notify the user that the roster is empty if no students are in the roster when the user prints it.	<ul style="list-style-type: none"> ● Press the “PrintByProfile” option without adding any students to the Roster. 	Roster is empty
23	Program should notify the user that the roster is empty if no students are in the roster when the user prints it.	<ul style="list-style-type: none"> ● Press the “PrintByStanding” option without adding any students to the Roster. 	Roster is empty
24	Program should notify the user that the roster is empty if no students are in the roster when the user prints it.	<ul style="list-style-type: none"> ● Press the “PrintBySchool” option without adding any students to the Roster. 	Roster is empty
25	Program should notify the user that the enrollment list is empty if no students are in the list when the user prints it.	<ul style="list-style-type: none"> ● Press the “PrintEnrolledStudents” option without adding any students to the enrollment list. 	Student enrollment is empty!

26	Program should notify the user that the enrollment list is empty if no students are in the list when the user prints it.	<ul style="list-style-type: none"> ● Press the “PrintTuitionDue” option without adding any students to the enrollment list. 	Student enrollment is empty!
27	Program should notify the user that the enrollment list is empty if no students are in the list when the user prints it.	<ul style="list-style-type: none"> ● Press the “SemesterEnd” option without adding any students to the enrollment list. 	Student enrollment is empty!
28	Residents cannot receive and be ineligible for a scholarship greater than \$10,000	<ul style="list-style-type: none"> ● Add a Resident student to the roster and attempt to award the student a scholarship of \$10,001 	[amount] invalid amount
29	Program should notify the user that there are no SAS Students in the roster if so.	<ul style="list-style-type: none"> ● Press the “SAS” option for printing by School/College without adding any SAS students to the enrollment list. 	There are no SAS students registered!
30	Program should notify the user that there are no RBS Students in the roster if so.	<ul style="list-style-type: none"> ● Press the “RBS” option for printing by School/College without adding any RBS students to the enrollment list. 	There are no RBS students registered!
31	Program should notify the user that there are no SC&I Students in the roster if so.	<ul style="list-style-type: none"> ● Press the “SC&I” option for printing by School/College without adding any SC&I students to the enrollment list. 	There are no SC&I students registered!
32	Program should notify the user that there are no SOE Students in the roster if so.	<ul style="list-style-type: none"> ● Press the “SOE” option for printing by School/College without adding any SOE students to the enrollment list. 	There are no SOE students registered!