Career Tracker Unit Test Results

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1. Record Maintenance - Alumni

1.1 Automated Unit Test Cases

82 automated test cases have been executed; details of tests are available at the following location:

https://github.com/ntkwilliam/CareerTracker/tree/master/src/frontend/src/app/unit-tests

1.2 Manual Unit Test Cases

Test Case ID	1.1	Test Case Name	Search for alumni – last name – with results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by last name is successful/returns expected results (records matching criteria present)		
Test Result	Pass	Corrective Action(s)	

Pre-conditions

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a last name value (test value	The last name field is populated with	Pass	
	Edwards)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.2	Test Case Name	Search for alumni – last name – without	
			results	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure a search for a matching criteria)	re a search for alumni by last name is successful/returns expected results (no results when no teria)		
Test Result	Pass	Corrective Action(s)		

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a last name value (test value	The last name field is populated with	Pass	
	Shrout)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.3	Test Case Name	Search for alumni – first name – with results	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure a search for a	for alumni by first name is successful/returns expected results (records matching		
	criteria present)			
Test Result	Pass	Corrective Action(s)		

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a first name value (test value	The first name field is populated with	Pass	
	Fred)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.4	Test Case Name	Search for alumni – last name – without
			results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by last name is successful/returns expected results (no results when no matching criteria)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a first name value (test value	The first name field is populated with	Pass	
	Shrout)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.5	Test Case Name	Search for alumni – alumnus ID– with results	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure a search for a	earch for alumni by alumnus ID is successful/returns expected results (records matching		
	criteria present)			
Test Result	Pass	Corrective Action(s)		

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter an alumnus ID value (test value	The alumnus ID field is populated with	Pass	
	79)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.6	Test Case Name	Search for alumni – alumnus ID – without
			results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by alumnus ID is successful/returns expected results (no results when no matching criteria)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter an alumnus ID value (test value	The alumnus ID field is populated with	Pass	
	888)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.7	Test Case Name	Search for alumni – city – with results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by city is successful/returns expected results (records matching criteria		
	present)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a city value (test value New Albany)	The city field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.8	Test Case Name	Search for alumni – city – without results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by city is successful/returns expected results (no results when no matching criteria)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a city value (test value New Washington)	The city field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.9	Test Case Name	Search for alumni – state – with results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by state is successful/returns expected results (records matching criteria		
	present)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a state value (test value IN)	The state field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.10	Test Case Name	Search for alumni – state – without results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for alumni by state is successful/returns expected results (no results when no matching criteria)		
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a state value (test value WY)	The state field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.11	Test Case Name	Search for alumni – employer – with results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a criteria present)	lumni by employer is successful,	returns expected results (records matching
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select an employer value (test value	The employer field is populated with	Pass	
	UPS)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.12	Test Case Name	Search for alumni – employer – without
			results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a matching criteria)	lumni by employer is successful,	/returns expected results (no results when no
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select an employer value (test value	The employer field is populated with	Pass	
	Humana)	value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.13	Test Case Name	Search for alumni – graduate school – with
			results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a matching criteria present)	lumni by graduate school is succ	cessful/returns expected results (records
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select a graduate school value (test	The graduate school field is populated	Pass	
	value Indiana University)	with value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.14	Test Case Name	Search for alumni – graduate school – without
			results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a when no matching criteria)	alumni by graduate school is successful/returns expected results (no results	
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select a graduate school value (test value University of Louisville)	The graduate school field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.15	Test Case Name	Search for alumni – no employer result
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a matching criteria present)	lumni by no employer selection	is successful/returns expected results (records
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select the "None" checkbox option	The checkbox is checked	Pass	
	next to employer			
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.16	Test Case Name	Search for alumni – no graduate school result
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a (records matching criteria pi		ection is successful/returns expected results
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Select the "None" checkbox option	The checkbox is checked	Pass	
	next to graduate school			
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.17	Test Case Name	Search for alumni – graduatin term code –
			with results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a matching criteria present)	lumni by graduation term code	is successful/returns expected results (records
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a graduate term code value	The graduation term code field is	Pass	
	(test value 9803)	populated with value		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.18	Test Case Name	Search for alumgni – graduation term code –
			without results
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a	alumni by graduation term code	is successful/returns expected results (no
	results when no matching c	riteria)	
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are not present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a graduation term code value (test value 5555)	The state field is populated with value	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.19	Test Case Name	Search for alumni – combination fields – with
			results – test 1
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description		ch for alumni with multiple combination fields is successful/returns expected results	
	(records matching criteria pr	resent)	
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a last name (test value Berger)	The last name and first name fields are	Pass	
	and first name (test value Fred)	populated		
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.20	Test Case Name	Search for alumni – combination fields – with
			results – test 2
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a	lumni with multiple combination	n fields is successful/returns expected results
	(records matching criteria pr	resent)	
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Enter a last name (test value Berger) and enter graduation term code (test value 9804)	The last name and graduation term code fields are populated	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.21	Test Case Name	Search for alumni – no criteria
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure a search for a (records matching criteria pr		a is successful/returns expected results
Test Result	Pass	Corrective Action(s)	

Submitted alumni (in this case, test data) are present in the database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the Search icon	Alumni search form is displayed	Pass	
4	Clear all fields.	All fields reflect no criteria entered	Pass	
5	Select the Search button	Search results are displayed	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.22	Test Case Name	Add new alumni – last name entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than last name are omitted		
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (last name Shrout)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.23	Test Case Name	Add new alumni – first name entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than first name are omitted		hen all fields other than first name are omitted
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (first name Scott)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.24	Test Case Name	Add new alumni – address line 1 entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation err omitted	st to ensure validation errors are displayed as expected when all fields other than address line 1 are nitted	
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (address line 1: 101	Fields populated with data as expected	Pass	
	Main St)			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.25	Test Case Name	Add new alumni – address line 2 entered only	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation err	validation errors are displayed as expected when all fields other than address line 2 are		
	omitted			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (address line 2: 101	Fields populated with data as expected	Pass	
	Main St)			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.26	Test Case Name	Add new alumni – city entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than city are omitted		hen all fields other than city are omitted
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (city: New Albany)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.27	Test Case Name	Add new alumni – state entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than city are omitted		hen all fields other than city are omitted
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (state: IN)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.28	Test Case Name	Add new alumni – zip code entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than zip code are omitted		hen all fields other than zip code are omitted
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (zip code: 47150)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.29	Test Case Name	Add new alumni – telephone number entered
			only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation err omitted	ors are displayed as expected w	hen all fields other than telephone number are
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (telephone number: (555) 555-5555	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.30	Test Case Name	Add new alumni – email address entered only
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when all fields other than email address are omitted		hen all fields other than email address are
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test@test.com			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.31.1	Test Case Name	Add new alumni – invalid telephone number
			format – test 1
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when telephone number is entered with an		
	invalid format		
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (telephone number: (555) 595-22	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.31.2	Test Case Name	Add new alumni – invalid telephone number	
			format – test 2	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation errors are displayed as expected when telephone number is entered with an invalid format			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (telephone number: (555) 59	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.31.3	Test Case Name	Add new alumni – invalid telephone number
			format – test 3
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation errors are displayed as expected when telephone number is entered with an		
	invalid format		
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (telephone number:	Fields populated with data as expected	Pass	
	50)			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.32.1	Test Case Name	Add new alumni – invalid email address – test
			1
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation	errors are displayed as expect	ted when email address is entered with an invalid
	format		
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address: test)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.32.2	Test Case Name	Add new alumni – invalid email address – test
			2
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation err	ors are displayed as expected w	hen email address is entered with an invalid
	format		
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test@)			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.32.3	Test Case Name	Add new alumni – invalid email address – test
			3
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation err format	ors are displayed as expected w	hen email address is entered with an invalid
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address: test@test)	Fields populated with data as expected	Pass	
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.32.4	Test Case Name	Add new alumni – invalid email address – test
			4
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/10/2020
Description	Test to ensure validation err format	ors are displayed as expected w	hen email address is entered with an invalid
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test@test.)			
5	Select the Save button	Validation errors displayed as expected	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.33.1	Test Case Name	Add new alumni – valid email address – test 1	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation err	errors are not displayed as expected when email address is entered with a valid		
	format			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test@test.com)			
5	Select the Save button	Validation errors not displayed for field	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.33.2	Test Case Name	Add new alumni – valid email address – test 2	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation err	errors are not displayed as expected when email address is entered with a valid		
	format			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test@test.test.com)			
5	Select the Save button	Validation errors not displayed for field	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.33.3	Test Case Name	Add new alumni – valid email address – test 3	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation err	tion errors are not displayed as expected when email address is entered with a valid		
	format			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test_1@test.com)			
5	Select the Save button	Validation errors not displayed for field	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.33.4	Test Case Name	Add new alumni – valid email address – test 4	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/10/2020	
Description	Test to ensure validation err	rrors are not displayed as expected when email address is entered with a valid		
	format			
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data (email address:	Fields populated with data as expected	Pass	
	test_1.test@test.com)			
5	Select the Save button	Validation errors not displayed for field	Pass	
6	Check post-condition 1		Pass	

Post-conditions

Test Case ID	1.34.1	Test Case Name	Add new alumni – valid data – test 1
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/12/2020
Description	Test to ensure validation err when all data is valid	rrors are not displayed, save message is displayed, and record is committed	
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data:	Fields populated with data as expected	Pass	
	Last Name: Shrout			
	First Name: Scott			
5	Select the Save button	Validation errors not displayed for	Pass	
		fields		
6	Check post-condition 1		Pass	
7.	Check post-condition 2		Pass	
8.	Check post-condition 3		Pass	

- 1. Validation errors not displayed for fields
- 2. Save message is displayed
- 3. Record is committed

Test Case ID	1.34.2	Test Case Name	Add new alumni – valid data – test 2
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/12/2020
Description	Test to ensure validation err when all data is valid	rrors are not displayed, save message is displayed, and record is committed	
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data:	Fields populated with data as expected	Pass	
	Last Name: Shrout			
	First Name: Scott			
	Address Line 1: 101 Main St.			
	City: New Albany			
	State: IN			
	Zip Code: 47150			
5	Select the Save button	Validation errors not displayed for	Pass	
		fields		
6	Check post-condition 1		Pass	
7.	Check post-condition 2		Pass	
8.	Check post-condition 3		Pass	

- 1. Validation errors not displayed for fields
- 2. Save message is displayed
- 3. Record is committed

Test Case ID	1.34.3	Test Case Name	Add new alumni – valid data – test 3	
System	User Interface	Subsystem	Records-Alumni	
Designed by	S. Shrout	Design Date	12/2019 – 2/2020	
Executed by	S. Shrout	Execution Date	2/12/2020	
Description	Test to ensure validation err when all data is valid	n errors are not displayed, save message is displayed, and record is committed		
Test Result	Pass	Corrective Action(s)		

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data:	Fields populated with data as expected	Pass	
	Last Name: Shrout			
	First Name: Scott			
	Telephone Number: (555) 555-5555			
5	Select the Save button	Validation errors not displayed for	Pass	
		fields		
6	Check post-condition 1		Pass	
7.	Check post-condition 2		Pass	
8.	Check post-condition 3		Pass	

- 1. Validation errors not displayed for fields
- 2. Save message is displayed
- 3. Record is committed

Test Case ID	1.34.4	Test Case Name	Add new alumni – valid data – test 4
System	User Interface	Subsystem	Records-Alumni
Designed by	S. Shrout	Design Date	12/2019 – 2/2020
Executed by	S. Shrout	Execution Date	2/12/2020
Description	Test to ensure validation err when all data is valid	rrors are not displayed, save message is displayed, and record is committed	
Test Result	Pass	Corrective Action(s)	

Application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Select Records in main navigation	Records submenu is displayed	Pass	
2	Select Alumni from records submenu	Alumni component/list is displayed	Pass	
3	Select the New Record icon	Alumni detail form is displayed	Pass	
4	Enter test data:	Fields populated with data as expected	Pass	
	Last Name: Shrout			
	First Name: Scott			
	Email Address: test@test.com			
5	Select the Save button	Validation errors not displayed for	Pass	
		fields		
6	Check post-condition 1		Pass	
7.	Check post-condition 2		Pass	
8.	Check post-condition 3		Pass	

- 1. Validation errors not displayed for fields
- 2. Save message is displayed
- 3. Record is committed

4.1 Manual Unit Test Cases

Test Case ID	4.1	Test Case Name	Login – username does not exist		
System	Authentication	Subsystem	Users		
Designed by	Anthony Freitas	Design Date	12/2019 – 2/2020		
Executed by	Anthony Freitas	Execution Date	2/12/2020		
Description	Test to ensure entering a username that does not exist in the database returns an error				
Test Result	Pass	Corrective Action(s)			

Pre-conditions

Submitted username does not exist in database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Navigate to the Login page	Login page displayed	Pass	
2	Enter test data: Username: doesnotexist Password: doesnotexist	Username and password fields display entered data	Pass	
3	Select the Login button	Returns an error	Pass	
4	Check post-condition 1		Pass	

Post-conditions

1. "User does not exist" error message is returned

Test Case ID	4.2	Test Case Name	Authentication – incorrect password	
System	Authentication	Subsystem	Users	
Designed by	Anthony Freitas	Design Date	12/2019 – 2/2020	
Executed by	Anthony Freitas	Execution Date	2/12/2020	
Description	Test to ensure entering an existing username with an incorrect password returns an error			
Test Result	Pass	Corrective Action(s)		

Submitted username exists in database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Navigate to the Login page	Login page displayed	Pass	
2	Enter test data: Username: username Password: incorrect	Username and password fields display entered data	Pass	
3	Select the Login button	Returns an error	Pass	
4	Check post-condition 1		Pass	

Post-conditions

1. "Incorrect password" error message is returned

Test Case ID	4.3	Test Case Name	Authentication – correct login
System	Authentication	Subsystem	Users
Designed by	Anthony Freitas	Design Date	12/2019 – 2/2020
Executed by	Anthony Freitas	Execution Date	2/12/2020
Description	Test to ensure entering an existing username with a correct password navigates to the main application		
	page		
Test Result	Pass	Corrective Action(s)	

Submitted username exists in database; application is available and running

Steps

Step	Action	Expected Behavior	Pass/Fail	Comments
1	Navigate to the Login page	Login page displayed	Pass	
2	Enter test data: Username: username Password: password	Username and password fields display entered data	Pass	
3	Select the Login button	Redirect to the main application page	Pass	
4	Check post-condition 1		Pass	

Post-conditions

1. Main application page is displayed