FOUNDATION PORTAL

UI Testing

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Scope

In Scope

This project will address User Interface testing over the Foundation Portal:

- Documentation of user interaction and importance with the business functionality.
- Enhancement of testing features enlisted in the requirement section.

Out of Scope

The testing coverage will rely on the UI Testing definition scope. This meaning it is out of the scope of testing all the server side processing and information manipulation. The testing will only focus on how the data is loaded into the web browser. The requirements will only address some of the UI Testing that is consider critical for the solution. And on the definition of test project, it is out of scope any code improvement into the system that helps pass the tests, this last thing can be considered entirely as a separated project.

Objectives

Objective	Desired Outcome	Impact
Documentation of user	Document a flowchart / flow	Improved documentation to
interaction and importance with the business functionality.	diagram on the user interaction highlighting the business	begin UI Testing.
	functionalities	Better understanding of
		importance of UI Testing in relation with the functionalities
		of the site.
Enhancement of testing	Achieve desired UI automated	Ensure functionality.
features enlisted in the	testing	Ensure portability.
requirement section.		Ensure user interaction.

Requirements

User interaction documentation

1. List	of business features
1.1	Description business functionalities
1.2	Description business user types
1.3	Description of user infrastructure
2. Inte	raction flow diagram
2.1	User interaction with functionalities
2.1.1	Functionalities diagram
2.1.2	Functionalities flow chart
2.1.3	User input data integrity
2.2	User interaction by types of user flow
2.2.1	Authentication and classification of users
2.2.2	Information to be displayed and functions to each type of user
2.3	Client Infrastructure interaction with the portal
2.3.1	Description of different devices and resolution systems
2.3.2	Response flow chart to different client infrastructure

UI Testing

1. Mul	tiple platform support		
1.1	Test page load correctly in multiple browsers		
1.2	Test page functionality in multiple browsers		
1.3	Test page interface maintains proper format in multiple browsers		
2. Mul	tiple systems		
2.1	Test responsiveness for different devices resolution		
2.2	Test responsiveness for different devices interaction		
3. Inpu	ut validation		
3.1	Test form validation		
3.2	Test fields input validation		
3.3	Test URL [GET] parameters validation		
4. Use	r interaction responses		
4.1	Test interaction with <select> elements response</select>		
4.2	Test links availability		
4.3	Test responses while filling forms		
4.4	Test files links availability in form		
5. Proper and accurate display of calculations			
5.1	Test display of calculations from input fields in forms		
	· ·		

5.2	Test between reports
5.2.1	Reports by area
5.2.2	Reports by all areas
5.2.3	Reports by other area
5.3	Test narrative display of calculations
6. Ens	ure specific functions are present and responsive
6.1	Test list of funds and interactions between areas
6.2	Test funds function
6.2.1	Create fund
6.2.2	Update fund
6.2.3	Delete fund
6.3	Test report function
7. Clie	nt side responsiveness
7.1	Test client response time

Schedule

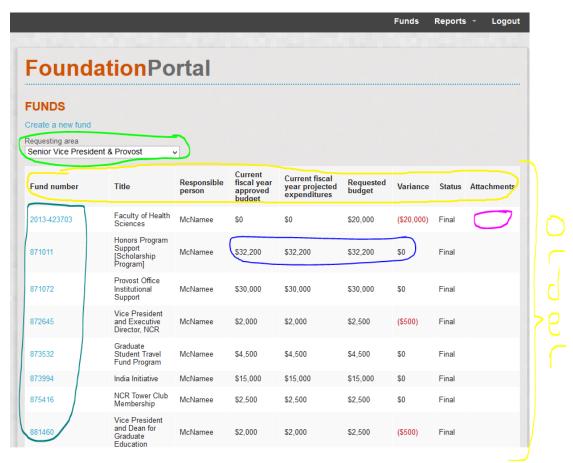
		Week 9 – 13 June					
12	1. List	of business features					
	1.1	Description business functionalities					
	1.2	Description business user types					
	1.3	Description of user infrastructure					
	2. Inte	raction flow diagram					
	2.1	User interaction with functionalities					
	2.1.1	Functionalities flow chart					
	2.1.2	User interaction of functionalities					
	2.1.3	User input data integrity					
13	2.2	User interaction by types of user flow					
	2.2.1	Authentication and classification of users					
	2.2.2	7,10					
	2.3	Client Infrastructure interaction with the portal					
	2.3.1	Description of different devices and resolution systems					
	2.3.2 Response flow chart to different client infrastructure						
		Week 16 – 20 June					
16	1. Mul	tiple platform support					
	1.1	Test page load correctly in multiple browsers					
	1.2	Test page functionality in multiple browsers					
	1.3	Test page interface maintains proper format in multiple browsers					
17	2. Mul	tiple systems					
18	2.1	Test responsiveness for different devices resolution					
19	2.2	Test responsiveness for different devices interaction					
	3. Input validation						

	3.1	Test form validation				
	3.2	Test fields input validation				
	3.3	Test URL [GET] parameters validation				
20	4. User interaction responses					
	4.1	Test interaction with <select> elements response</select>				
	4.2	Test links availability				
	4.3	Test responses while filling forms				
	4.4	Test files links availability in form				
		Week 23 -27 June				
23	5. Pro	per and accurate display of calculations				
24	5.1	Test display of calculations from input fields in forms				
	5.2	Test between reports				
	5.2.1 Reports by area					
	5.2.2	Reports by all areas				
	5.2.3	,				
	5.3	5.3 Test narrative display of calculations				
25	6. Ensure specific functions are present and responsive					
26	6.1	Test list of funds and interactions between areas				
	6.2	Test funds function				
	6.2.1	Create fund				
	6.2.2	Update fund				
	6.2.3	2.3 Delete fund				
	6.3	Test report function				
	7. Clie	nt side responsiveness				
	7.1 Test client response time					
27	Wrap u	testing documentation and report				

Appendix

Area Description: Initial home screen

Controller: funds/browse



Color Code	Object Type	Description	Test
	Select Tag	Let's choose between the	+ Should load different founding, according
		different requesting areas	to the selected option
			+ Should be enabled and selectable
	Anchor Tag	Links must redirect to	+ Links are fully working, no broken links
		appropriate views	+ Links relate to information clicked on
	Td Tag	The information displayed	+ Values must be formatted
		from the founding	+ Variance must show red and in parenthesis
			when negative.
			+ Variance must show black when positive or
			0
	Img & anchor	Displays an icon to access	+ Attachment must be shown if there are
	tag	to the attached scanned	+ Link to files must work properly
		forms	
	Th tags	Columns of information	+ Must be clickable and enabled
			+ Must alter the order when clicked
			+ Must enable different ways of ordering

Area Description: Report

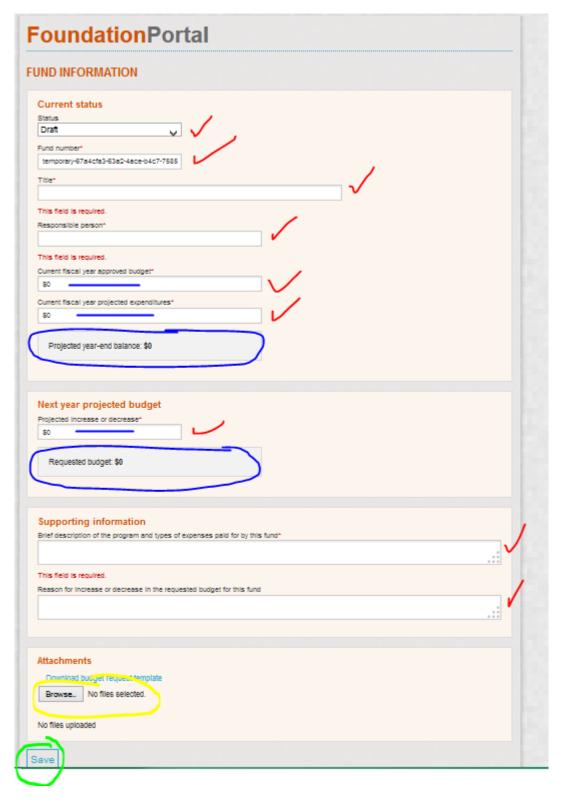
Controller: reports/funding-request

FUNDING REQUES	TREPORT					
Download Excel version						
Fund number	Title	Responsible person	Current fiscal year approved budget	Current fiscal year projected expenditures	Requested budget	Variance
		Presid	ent			
21333	New Found A	Person A	\$24,576	\$23,867	\$51,365	(\$26,789)
871013	Virginia Business- Higher Education Council	O'Rourke	\$20,005	\$20,000	\$20,005	\$0
871331	University Special Activities	O'Rourke	\$260,000	\$260,006	\$260,000	\$0
881856	President's Institutional Expense	O'Rourke	\$50,000	\$50,000	\$50,000	\$0
temporary-00bce870-0bfd- 4087-88c5-a4621a5565e2	Freddy Smoot	Norv Turner	\$0	\$0	\$0	\$0
temporary-172cb305-fbbf-4ad0- bd79-d3b04626ff1b	Test President Fund	Greer	\$2,500	\$2,500	\$2,500	\$0
temporary-dfa4b0df- c2b4-42a1-8eae-d5c5f9769a09	Stephen Davis	Norv	\$0	\$0	\$0	\$0
Total for President			\$357,081	\$356,373	\$383,870	(\$26,789)
381852	Vice President for Administrative Services	Shelton	\$2,000	\$2,000	\$2,000	\$0
381923	Automobile Allowances	Shelton	\$32,850	\$32,550	\$32,325	\$525
381245	Alumni Relations Budget	Tillar	\$1,200,000	\$1,200,000	\$1,300,000	(\$100,000
Total for Vice President for Fina	nce & CFO		\$2,648,463	\$2,410,069	\$2,718,838	(\$70,375)
Grand totals			\$9,008,275	\$7,777,298	\$9,752,736	(\$744,461
		Other uses of	of funds			
383344	Virginia Tech Athletic Fund	Flanagan	\$2,243,794	\$2,243,794	\$2,368,230	(\$124,436)
387100	WVTF Operations	Flanagan	\$72,000	\$72,000	\$90,000	(\$18,000)
emporary-814cb1b9-338a- 4c92-a84d-df8102aff8d3	Brad Johnson	Norv Turner	\$7	\$7	\$7	\$0
emporary-c5bbe569-6fee- 4406-9dc8-5ca37de66a81	Fred Smoot	Norv Turner	\$5	\$5	\$5	\$0
455963	Other Found	Person OTHER	\$30,000	\$15,000	\$20,000	\$10,000

Color Code	Object Type	Description	Test
	Anchor Tag	Link to export report into	+ Must have proper link
		an excel file	+ Must return an excel file
	Th Tag	Columns of information	+ Enabled and clickable
			+ Reorder information from areas
	Tr > Td Tag	Display the area name of	+ Display only the proper area
		the funds	+ Text has to be centered
	td	Displays information and	+ Values must be formatted
		results from other	+ Variance must show red and in parenthesis
		columns	when negative.
			+ Variance must show black when positive or
			0
			+ Values must have a mathematical
			concordance
	Tr > Td Tag	Displays total sums from	+ Correct formatted row
		areas	+ Values must be formatted
			+ Mathematical concordance with area
			+ All areas must have one
	Tr > Td Tag	Displays total sums from	+ Correct formatted row
		all areas not including	+ Values must be formatted
		other funds	+ Mathematical concordance with area
			+ Must be only one

Area Description: Create new fund form

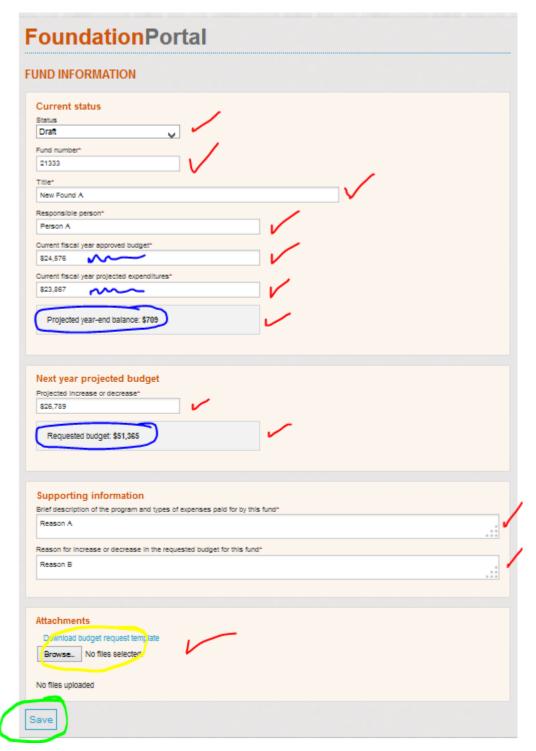
Controller: funds/create?areaid="Area"



Color Code	Object Type	Description	Test
	Input +	Let user input different	+ Validate correct input
	selection Tag	types of data: text,	+ Format values after input
		numbers and selection.	+ Display appropriate format
	Div>Span>Stro	Displays result of	+ Should initialize on 0
	ng Tag	mathematical operation.	+ Display correct format: red + parenthesis
			on negative and black on positive or 0
			+ Compute after click outside of element
	Input> Fiel tag	Enable user to upload a	+ Enabled and clickable
		file	+ Show uploaded files
			+ Enable to delete uploaded files
			+ Return success of uploading file
	Span (button)	Button to submit form	+ Enabled and clickable
	tag		+ Executes validation, shows required
			unfilled fields
			+ When form is validate must return to list
			of funds.

Area Description: Edit existing fund

Controller: funds/edit/"fund_reference"



Color Code	Object Type	Description	Test
	Input +	Let user input different	+ Load same information from list
	selection Tag	types of data: text,	+ Validate correct input
		numbers and selection.	+ Format values after input
			+ Display appropriate format
	Div>Span>Stro	Displays result of	+ Should initialize on original value
	ng Tag	mathematical operation.	+ Display correct format: red + parenthesis
			on negative and black on positive or 0
			+ Compute after click outside of element
			+ Show updated value if there is changes
	Input> Fiel tag	Enable user to upload a	+ Enabled and clickable
		file	+ Enable to delete uploaded files
			+ Show Uploaded files
			+ Enable to delete uploaded files
			+ Return success of uploading file
	Span (button)	Button to submit form	+ Enabled and clickable
	tag		+ Executes validation, shows required
			unfilled fields
			+ When form is validate must return to list
			of funds.
			+ Check if values where updated