

Bluering UAT (Sprint2)

Introduction:

This is the user acceptance test document for the program in Sprint2, As this is the last sprint, all of the functionalities will be tested in this document. In addition, the functionaries that already test in sprint 1 will be retest in this document. As a result, this document is more similar to be a whole program testing

- For each test case the tester would check if each acceptance test passes.
- If the acceptance test fails, the tester would prompt the group for another member to test it again.
- Finally, if the test fails for most of the members. the development group will go through the problem section to debugs.

For this testing document, we will follow the four Agile testing quadrants as a guide to process the testing stage, mainly focus on:

- (1) Sprint 2 user stories acceptance testing
- (2) GUI testing for whole program
- (3) Program functionality Test for whole program
- (4) Error Message Testing for testing the error message that should pop out
- (5) Database Quality testing.

Sprint 2 User stories acceptance criteria

ID	User Story	Task ID	Task description	Story point	Acceptance Criteria	Priority
7	I want to generate a PDF file with relevant information about the client and their dosimeter *Results in PDF are the average of all selected runs. Users will be able to select how many runs to be used for the report *There is no need to indicate how many runs were selected in the actual report. It is sufficient to show the average value.	7.1	The program should have a "create PDF report" button	2	Given: I am at the Analysis Page When: I want to generate a PDF report for analysis result Then: I can find a "create PDF report" button.	high
		7.2	The PDF report should contain all necessary analysis results in the corrected format	16	Given: I am at the Analysis Page When: I click "create PDF report" button Then: A PDF viewer will be shown and i can download from it	high
8	I want to generate a DCC (.xml) file according to international standards which will contain relevant information about the client and their dosimeter	8.1	The program should have a "Create DCC" button.	2	Have a "Create DCC" button.	low
		8.2	The DCC file should according to international standards with relevant information about analysis result	46	A DCC file is able to generate and can be downloaded.	low
12	I want to download previous data files	12.1	Search file from database by name functionality	4	Given: I want to download the uploaded files on database When: I am in download page, i can type in the name to auto search the files that have similar name in database Then: These files will be demo below with a tree structure	high
		12.2	A button that can download the selected files from database, and its functionality.	8	Given: I want to download the uploaded files on database When: I am in download page, i already search for the file and find i want Then: I click download button and the .csv file can be downloaded	high

Acceptance tests and results

Acceptance criteria ID	Step #	Acceptance Test	Critical		Test Result		Comments
			Yes	No	Yes	No	
7.2	7.2.1	Client complete all the steps include select files for different runs, read information on main interface, and analysis of the selected runs, now he is looking for the Generate PDF button.	x		x		
	7.2.2	The Generate PDF button demo on the right down corner of the main page.	x		x		
	7.2.3	Client then click the Generate PDF button, A PDF viewer window is opened.	x		x		
	7.2.4	Client can choose to view pdf, print pdf, download pdf and scale pdf to best size.	x		x		
	7.2.5	By clicking save button, the pdf will be downloaded to client's local desktop. (client can choose where to store the file)	x		x		
12.1	12.1.1	Client click download button, and come into the download uploaded data page.	x		x		
	12.1.2	Client type in the key word in the text input space.	x		x		
	12.1.3	The search results are shown below.	x		x		
12.2	12.2.1	Client choose the file that he want	x		x		
	12.2.2	Client click download button, finally the file will download and store in his desktop (client can choose where to store the file)	x		x		

GUI Testing

ID + GUI	Steps	Succeed	Tester
1. Total Run	<ul style="list-style-type: none"> Run the program There is an area showing total runs The area fit in the layout 	Y	Hao Liu
2. Selected Run	<ul style="list-style-type: none"> Run the program There is an area showing Selected Runs The area fit in the layout 	Y	
3. Confirm button	<ul style="list-style-type: none"> Run the program There is a confirm button The button size fit in the layout The button is clickable 	Y	
4. Compare button	<ul style="list-style-type: none"> Run the program There is a compare button The button size fit in the layout The button is clickable Once the button click <ul style="list-style-type: none"> Graph and Table window is showing <ul style="list-style-type: none"> scatter plot is showing on the left hand side Table is showing on the right hand side 	Y	
5. Progress bar	<ul style="list-style-type: none"> Run the program There is a progress bar The bar fit in the layout The bar will have a loading status in 3 cases: <ul style="list-style-type: none"> when data upload to database when comparing and get analysis graphs when generating the .pdf file 	Y	
6. Run 1-5 File selected area and button	<ul style="list-style-type: none"> Run the program There is an area for selecting different runs of files The area fit in the layout the select button for each run is shown The button is clickable 	Y	
7. Job number	<ul style="list-style-type: none"> Run the program There is a area showing job number The area fit in the layout 	Y	

8. Equipment Information Area	<ul style="list-style-type: none"> • Run the program • There is an area showing Equipment Information Area <ul style="list-style-type: none"> • Chamber 1 <ul style="list-style-type: none"> • Model • Serial • Chamber 2 <ul style="list-style-type: none"> • Model • The area fit in the layout • There is a read information button • The button fit in the lay out • The button is clickable 	Y
9. Client Information Area	<ul style="list-style-type: none"> • Run the program • There is an area showing client information Area <ul style="list-style-type: none"> • Client Name • Operator • Client Address <ul style="list-style-type: none"> • line 1 • line 2 • The area is fit in the layout • There is a update information button • The button fit in the layout • The button is clickable 	Y
10. Upload Data button	<ul style="list-style-type: none"> • Run the program • There is a confirm button • The button size fit in the layout • The button is clickable 	Y
11. Download Data button	<ul style="list-style-type: none"> • Run the program • There is a Download Data button • The button size fit in the layout • The button is clickable <ul style="list-style-type: none"> • A selecting page is showing <ul style="list-style-type: none"> • some space to search the name of file in database • the tree structure of file is shown for client to select 	Y
12. Generate PDF button	<ul style="list-style-type: none"> • Run the program • There is a Generate PDF button • The button size fit in the layout • The button is clickable <ul style="list-style-type: none"> • A PDF viewer window is showing • User can slide down to have a look on the pdf • Scale button is shown to scale the size of pdf • Save button is shown to download the pdf file in local desktop 	Y

Program Functionality Testing

ID	Functionality	Sub-functionality	Supposed Outcome	Succeed (Y/N)	Tester	Comment
1	Upload		<ol style="list-style-type: none"> 1. All the data in the raw CSV file will be uploaded to the database (3 tables) 2. generate a new job number (CAL), which will be uploaded to the database and write into the local file (with pop-up notification) 	Y	Chris Zhang	
2	Database Management	Search	<ol style="list-style-type: none"> 1. A new interface for database management will pop up 2. The user can search data files by job number (CAL), client name and chamber 3. All conditions support fuzzy searching 4. The result will be presented as a tree (root cal_name chamber run lab/client) 	Y		
		Download	<ol style="list-style-type: none"> 1. Select multiple files from the tree, choose a saving path, press download files will be downloaded, which is the same as the original files 2. The downloaded files can be compared by the software 	Y		

3	Generate PDF	PDF viewer	A new interface showing the preview of the generated report will pop up	N		The program hangs because of <i>plotly.write_image</i> . All other testers can execute the process without any error or hangs.
		Save PDF	The PDF report will be saved to chosen path	N		Fail as above
3*	Generate PDF*	PDF viewer	1. A new interface showing the preview of the generated report will pop up	Y	Hao Liu	This is the retest for the generate pdf: Success
		Save PDF	1. Click save button 2. The PDF report will be saved to chosen path	Y		

Error Message Testing

ID	Steps	Supposed Outcome	Succeed (Y/N)	Tester
1	1. Select no checkboxes. 2. Click on the "Confirm" button	Pop up a warning message : Please select the checkbox you need!	Y	Yushu QIU
2	1. Select the checkbox of run 1. 2. Click on the "Browser" button to add a file to this selected run. 3. Leave another file box empty. 4. Click on the "Confirm" button	Pop up a warning message : Please select the file of Run 1!	Y	
3	1. Select the checkbox of run 1. 2. Click on the "Browser" button to add two files to this selected run. The data structure of the file is wrong. 3. The path of the wrong file is "C:\CAL00001 Raw ClientA-Run1-Client.csv". 4. Click on the "Confirm" button	Pop up a warning message : The file: C:\CAL00001 Raw ClientA-Run1- Client.csv data structure is not valid!	Y	
4	1. Select the checkboxes of run 1 and run 2. 2. Click on the "Browser" button to add all files in the selected runs. The client information of a file is different from other files. 3. Click on the "Confirm" button	Pop up a warning message : Client information is not the same!	Y	
5	1. Select the checkboxes of run 1 and run 2. 2. Click on the "Browser" button to add files in the selected runs. The Chamber ID of a file is different from other files. 3. Click on the "Confirm" button	Pop up a warning message : Chamber ID is not valid! Please check the chamber information and put file_CLIENT in field 1 and file_LAB in field 2.	Y	
6	1. Select the checkbox of run 1. 2. Click on the "Browser" button to add two files to this selected run. The file does not have client information. 3. Click on the "Confirm" button	Pop up a warning message : Please complete the client information in all files!	Y	

Database Quality Testing

ID	Steps	Supposed Outcome	Results	Tester
1	Store Data to Database	All the data could store in to the Database	Yes, it can	Junjie Xia
2	Test the Speed of Storage	The Speed of upload one file to database	The file contains 2063 lines, which tooks 49.38 seconds to upload all the information into database	
3	Detect the Replicated files	The Database system could disdistinguish the Replicated file and alert it	Yes, it can	