Bluering UAT (Sprint1)

User stories acceptance criteria

ID	User Story	Task ID	Acceptance Criteria
1	I want to upload and select a set of data files from a local drive and store them in a database (or a structure of the team's choice)	1.1	The user is able to selected file from his local disk
2	I want to view the client's information (e.g Name, Address, Job number) and also relevant information about their dosimeter (e.g chambers ID, serial number, model)	2.1	The GUI is designed to demonstrate client's information.
		2.2	The clients information is read when the file uploaded.
		2.3	If the clients information can not found in the uploaded file, the client is able to type their details and these details will be update to the file at the same time
4	I want to have visualizations(e.g graph, table of analysis results) *Visualization must be scalable *Visualization (can be) interactive (hoovering over data points show insightful information) *Types of Visualization 1. N vs E_eff/ KeV 2. [R2 (273.15+TS2)] / (273.15 + TM2) -> per beam quality 3. Maybe more next time	4.1	The program should have a *"compare data"* button for data analysising.
		4.2	There is an area showing the graph and table of analysis results.
		4.3	When selecting different runs, the corresponded graph and table should be updated.
3	I want to select 1 or more pairs of data files(Client.csv, Lab.csv) *Note that three beam qualities will be calculated twice, and the second set of calculations has to be denoted with an asterisk.	3.1	Only csv file can be selected.
		3.2	Data structure should be correct, if not error message "invalid data file" will be pop out.

Acceptance tests and result

Acceptance criteria ID	Step #	Acceptance Test	Critical		Test Result		Comments
			Yes	No	Yes	No	
1.1	1.1.1	The user click the selected button and the window for choosing a local file pop out	x		x		
	1.1.2	The user choose the pair of data files	x		x		
	1.1.3	The user click the confirm button to confirm the file is correct with no structure error	x		x		error type: 1. no selected file 2. client information invalid 3. data structure invalid 4. missing file
2.1	2.1.1	The user can find a space for showing client information on the right corner of the interface	x		x		
2.2	2.2.1	After confirm the files, user is able to find the client information is showing on the specific part (if there is client information in files)	x		x		
2.3	2.3.1	If no client information in files, the user enter 1.client name 2. client address 3. operator	x		x		
	2.3.2	The user fill all missed information and click update button, the new client information will be update in the confirmed files as well.	x		x		After updating, all csv files are in the same data structure.
	2.3.3	Even if there is client information, the user can change the information if needed.	x		x		
	2.3.4	The user fill all information they want to updated and click update button, the updated information will replaced previous information	x		x		
3.1	3.1.1	When user click select button, the use is only able to select .csv type files	x		x		Once a time
3.2	3.2.1	The user choose two file.	x		x		
	3.2.2	The user click confirm button	x		x		To check validation
	3.2.3	A error window will pop out showing wrong structure as the program will automatically test the data structure for the pair of data in same run.	x		x		

4.1	4.1.1	The user can find a compare button, and is able to click it after confirm his uploaded file without any error.	x		x		
4.2	4.2.1	After click compare button, the progress bar is gonna load	x		x		The progress bar wouldn't grow immediately
	4.2.2	Once the progress bar is finish, a window with a scatter plot and a table is demo	x		x		
4.3	4.3.1	The user close the graph window and select more runs for comparing.	x		x		
	4.3.2	The scatter plot and table will demo data for multiple run after user click compare button.	x		x		

GUI Testing

ID + GUI	Steps	Succeed
1. Total Run	• Run the program • There is an area showing total runs • The area fit in the layout	Y
2. Selected Run	• Run the program • There is an area showing Selected Runs • The area fit in the layout	Y
3. Confirm button	• Run the program • There is a confirm button • The button size fit in the layout • The button is clickable	Y
4. Compare button	• Run the program • There is a compare button • The button size fit in the layout • The button is clickable	Y
5. Progress bar	• Run the program • There is a a progress bar • The bar fit in the layout • The bar will have a loading status	Y
6. Run 1-5 File selected area and button	• 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	• Run the program • There is a area showing job number • The area fit in the layout	Y
8. Generate button	• Run the program • There is a generate button • the button fit in the layout • The button is clickable	Y

9. Equipment Information Area	• Run the program
	• There is an area showing Equipment Information Area
	  • Chamber 1
	  • Model
	  • Serial
	  • Chamber 2
	  • 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

10. Client Information Area	• Run the program
	• There is an area showing client information Area
	  • Client Name
	  • Operator
	  • Client Address
	  • 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

11. Upload Data button	• Run the program • There is a confirm button • The button size fit in the layout • The button is clickable	Y
12. Download Data button	• Run the program • There is a Download Data button • The button size fit in the layout • The button is clickable	Y
13. Generate PDF button	• Run the program • There is a Generate PDF button • The button size fit in the layout • The button is clickable	Y
14. Generate DCC button	• Run the program • There is a Generate DCC button • The button size fit in the layout • The button is clickable	Y

Error Testing

ID	Steps	Supposed Outcome	Succeed (Y/N)
1	1. Select no checkboxes. 2. Click on the "Confirm" button	Pop up a warning message : Please select the checkbox you need!	Y
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