	TC RT01	Date: 26.02.2023
	Tittle: Result page - base test	Priority: 3
	Author M.W.	Version: 1.0
	Function: result page	
	Description: smoke test to check if the page is displayed correctly	
	Pre-conditions: 1. user is logged-in to the system	
No.	Test Step	Expected result
1.	1. Click on the "hamburger menu" icon 2. Click "workspace" and choose "characteristics" 3. On "characteristics" page click on the "results" button for random characteristic.	User should be redirected to the "results" page. The page should contains following sections: 1.the "results" header 2. the "Results for **{char_name}**" subtitle. The parameter char_name could be depend on previously selected characteristic. 3.The "Back to characteristic" gray button 4. The "Delete result sample" red button 5. The "Add result sample" green button 6. Below could be a table with columns "Sample", "Value" and "Actions". Column "Action" should contains two buttons: blue "edit" and red "delete". The table may not be displayed when there is no data to display.
	Exit criteria: user can log out or execute next test cases	

	TC RT02	Date: 26.02.2023
	Tittle: Result page - adding results	Priority: 3
	Author M.W.	Version: 1.0
	Function: adding result	
	Description: this test case should check functionality of adding result	
	Pre-conditions: 1. user should be on a result page	
No.	Test Step	Expected result

1.	1. Click the "Add Sample" button.	1. The "Add Sample" dialog should be appear.
		 2. The dialog should have title "Add results sample for {characteristic_name} "
		 3. The dialog should contains two textboxes:
		    a. "Sample name" – field is mandatory, the length between 3-30 chars.
		    b. "Results" – field is mandatory, floating point number with max length of 12 chars, can be comma separated
		 4. The dialog should contains two buttons: "create" and "cancel"

2.	**Positive case – add new sample, single result** Fulfill fields with following data: 1. "Sample name" – test 2. "Results" – 1 Click "Create" button	Green notification should appears with following text: "Results have been created". It should disappears after 5 seconds. Newly created sample should be visible in a table and the data should match the data in a dialog form.
3.	**Positive case – add new sample, multiple results** Open dialog again Fulfill fields with following data: 1. "Sample name" – test 2. "Results" – 1, 6.2 Click "Create" button	Green notification should appears with following text: "Results have been created". Click "X" to remove notification. Newly created sample should be visible in a table and the data should match the data in a dialog form.
4.	**Positive case – check "cancel" button, empty form** 1. Open modal 2. Click "cancel" button	Modal disappears. No additional data is displayed in a table.
5.	**Positive case – check "cancel" button, fulfill form**	Modal disappears. No additional data is displayed in a table.

	1. Open modal 2. Fulfill the data 3. Click "cancel" button.	
6.	**Negative case – clicking "create" on empty form or form with only one field with data** 1. Open a modal 2. Click "create" button	Red error notification "Cannot add results. Check values and try again" **Should model disappears or not**
7.	**Negative case – wrong length of "sample name" input** 1. Open modal 2. Add too short (less than 3 digits) or too long (more than 12 digits) "sample name" 3. Fill "results" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
8.	**Negative case – incorrect values in field "Results"** 1. Open modal 2. Add character is not digit (e.g. $, @, !, *, abc, 1!25) in field "Results" 3. Fill "sample name" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
9.	**Negative case – wrong length of "Results" input** 1. Open modal 2. Add too long (more than 12 digits) "Result"(e.g. 12345678910, 123456789101, 12345678.910, 12345678910.4) 3. Fill "sample name" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
	Exit criteria: user can log out or execute next test cases.	

	TC RT03	Date: 26.02.2023
	Tittle: Result page – editing results	Priority: 3
	Author M.W.	Version: 1.0
	Function: Editing result	
	Description: this test case should check functionality of editing result	

	Pre-conditions:
	    1. user should be on a result page
	    2. There should be at least one sample in a table	

No.	Test Step	Expected result
1.	1. Click the "Edit" button in a table for one of available sample.	1. The "Edit Sample" dialog should be appear. 2. The dialog should contains two textboxes: c. "Sample name" – field is mandatory, the length between 3-30 chars. d. "Results" – field is mandatory, floating point number with max length of 12 chars, can be comma separated 3. The dialog should contains two buttons: "save" and "cancel"

2.	**Positive case – edit sample, single result**
	Fulfill fields with following data:
	    1. "Sample name" – test12
	    2. "Results" – 12
	Click "Save" button
		Green notification should appears with following text: "Results have been created". It should disappears after 5 seconds.
		
		Sample should be visible on the table with a new data.

3.	**Positive case – edit sample, multiple results**
	Open dialog again
	Fulfill fields with following data:
	    1. "Sample name" – test123
	    2. "Results" – 1, 6.2, 765
	Click "Save" button
		Green notification should appears with following text: "Results have been created". Click "X" to remove notification.
		
		Sample should be visible on the table with a new data.

4.	**Positive case – check "cancel" button, empty form**
	    1. Open modal
	    2. Click "cancel" button
		Modal disappears.
		No data changes in a table.

5.	**Positive case – check "cancel" button, fulfill form**
	    1. Open modal
	    2. Fulfill the inputs with valid data
	    3. Click "cancel" button.
		Modal disappears.
		No data changes in a table.

6.	**Negative case – clicking "Save" on empty form or form with only one field filled.**	1. Red error notification "Cannot add results. Check values and try again"

	1. Open a modal 1. Click "Save" button	2. **Should model disappears or not**
7.	**Negative case – wrong length of "sample name" input** 1. Open modal 2. Add too short (less than 3 digits) or too long (more than 12 digits) "sample name" 3. Fill "results" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
8.	**Negative case – incorrect values in field "Results"** 1. Open modal 2. Add character is not digit (e.g. $, @, !, *, abc, 1!25) in field "Results" 3. Fill "sample name" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
9.	**Negative case – wrong length of "Results" input** 1. Open modal 2. Add too long (more than 12 digits) "Result"(e.g. 12345678910, 123456789101, 12345678.910, 12345678910.4) 3. Fill "sample name" with proper data 4. Click "create" button	Red error notification "Cannot add results. Check values and try again"
	Exit criteria: user can log out or execute next test cases.	

	TC RT04	Date: 09.03.2023
	Tittle: Result page - deleting result sample	Priority: 3
	Author M.W.	Version: 1.0
	Function: deleting result sample	
	Description: this test case should check functionality of deleting result sample	

	Pre-conditions:
	   1. user is logged-in to the system
	   2. There should be at least one sample in a table	

No.	Test Step	Expected result
1.	**Smoke test** 1.Click "Delete results sample" button.	The "Delete Sample " dialog should appears. The dropdown should contains list of all available samples. Default value of a dropdown should be "Select sample". The dialog should contains two buttons: white "cancel" and red "delete"

2.	**Positive case – check "cancel" button, default value**
	   1. Open modal
	   2. Click "cancel" button
		Modal disappears.
		No data changes in a table.

3.	**Positive case – check "cancel" button, sample selected**
	   1. Open modal
	   2. Choose random sample from the list.
	   3. Click "cancel" button.
		Modal disappears.
		No data changes in a table.

4.	**Positive case - check "X" button.** Repeat steps 2 and 3 but use a "X" button for the cancelling.	Modal disappears. No data changes in a table.

5.	**Positive case – check "delete" button, default value**
	   1. Open modal
	   2. Click "delete" button
		What should happen? (see comment #10)

6.	**Positive case – check "delete" button, sample selected**
	   1. Open modal
	   2. Choose random sample from the list.
	   3. Click "delete" button.
		Modal disappears.
		Green notification should appear with text "Results have been removed"
		Removed sample should disappear from the table.

	Exit criteria: user can log out or execute next test cases	

	TC RT05	Date: 09.03.2023
	Tittle: Result page - deleting result from table	Priority: 3
	Author M.W.	Version: 1.0
	Function: deleting result from table	
	Description: this test case should check functionality of deleting result from table	
	Pre-conditions: 1. user is logged-in to the system 2. There should be at least one sample in a table	
No.	Test Step	Expected result
1.	**Smoke test** 1.Click "Delete" button for random sample in a table	The "Delete single result " dialog should appears. In a dialog should be a table (each row should contains one result value, each row should contains "X" button) Last row should contain text: "Are you sure you want to delete **{values}**" The dialog should contains two buttons: white "cancel" and red "delete"
2.	**Positive case – check "cancel" button, default value** 1. Open modal 2. Click "cancel" button	Modal disappears. No data changes in a table.
3.	**Positive case – check "cancel" button, one result remove** 1. Open modal with at least two results. 2. Click "X" button on one result. 3. Click "cancel" button.	Modal disappears. No data changes in a table.
4.	**Positive case – check "delete" button, default value** 1. Open modal 2. Click "delete" button	**What should happen?** (see comment #11)
5.	**Positive case – check "delete" button, partially removing results** 1. Open modal with at least two results. 2. Click "X" button on one result. 3. Click "delete" button.	Modal disappears. Green notification should appear with text "Results have been removed" For selected sample result should be partially remove.
	Exit criteria: user can log out or execute next test cases	

	TC HC 01	Date: 09.03.2023
	Tittle: Additional functional requirements for histogram	Priority: 3
	Author M.W.	Version: 1.0
	Function: Histogram menu	
	Description: Additional functional requirements for histogram	
	Pre-conditions: 1. user is logged-in to the system 2. User has histogram chart displayed with sample data.	
No.	Test Step	Expected result
1.	**Smoke test** 1.Click "hamburger" menu on a top-right corner of graph area	The menu should be extended. The menu should has a following functions: - Saving histogram as image - Exporting data - Annotate chart area - Print histogram
2.	**Positive case – saving histogram as image** 1. Choose option "save histogram as image"	System window should be open. User should has possibility to set random name. User can choose following file type: PNG - JPG - SVG – PDF
3.	**Positive case – compare image with chart** 1. Save locally all 4 formats 2. Open them 3. Compare results with chart	Image must be the same with chart.
4.	**Positive case – exporting the data** 1. Choose option "export data"	System window should be open. User should has possibility to set random name. User can choose following file type: - CSV - XLSX - JSON
5.	**Positive case – compare file with template** 1. Save locally all 3 formats 2. Open them 3. Compare results with chart	File data must be the same with table.
6.	**Positive case – annotate chart area** 1. Click "annotate chart" button. 2. Select one option	Selected option should be highlighted.
7.	**Positive case - download annotated chart** 1. Repeat step 2 and 3 for annotated data	Results are downloaded and contain valid data
8.	**Positive case – remove annotation from chart** 1. Click menu and choose "remove annotations" button	Annotation should be removed.

9.	**Positive case – printing results** 1. Click "print" button	System window should be open. User can successfully print chart in color or black and white.
	Exit criteria: user can log out or execute next test cases	

Nonfunctional Requirements

1.

Testing team will be instructed about performance requirements and they will pay attention on a topic during execution of manual test cases. Also automatic test waits will be adjusted to this requirements. They will throw an error if the time of action will be too long.

2.

The backups will be checked before release. Tests will be focused on checking if backup is saving every hour and it is store not more than week. Also automatic test will check hourly savings and will sent notifications if the data will be not save.

3.

Manual tests require logging to system. Person who is responsible for login test cases should be instructed to prepare also negative cases (User cannot access data which belong to another user). Also the Postman will be used to check authorization (for 401 error).

4.

Availability will be check by external company.

Comments:

1. Section 4.10. there is information about "add results sample" button. In section 4.10.1 there is an information about "Add Sample" button. Are they the same buttons? (I think I'm found inconsistency in requirements).
2. Add sample dialog **have** title (should be has)
3. TC 2.5 Should confirmation popup appears after clicking "cancel" ?
4. TC 2.6 Should modal disappears after clicking "create" button.
5. TC 2.7 Error message is not meaningful – wrong text
6. TC 3.1 Fields don't have names.
7. TC 3.1 What should be default values in inputs after clicking edit (should be empty or should have a previous values)
8. TC 3.1 Which of this fields should be edited (for both modals)
9. TC 3.2 Wrong notification text (should be "results should be updated")
10. TC 4.5 Is should be possibility to click "delete" button with default value of a dropdown?
    a. Button is not clickable.
    b. Should error notification appears after clicking "delete" button.
11. TC 5.4 in "adding sample" section there is information that both "sample name" and "results" are mandatory. What should happen when user removes all results that should be mandatory? Should sample be still displayed in a table with no values or should just be removed from the table? That may cause potential bugs on "reports" page.