Acceptance Test

The acceptance test is designed as below:

UID	Technical User Story	Number	Acceptance Criteria	Priority
1	As a healthcare worker in ACDS, I want to extract the needed parameters from a DICOM automatically, so that I can save much effort.	1.1	Given I have a DICOM file, and the parameter I want exists in this DICOM file When I am trying to extract the needed parameters from this DICOM file Then I should be able to get the value of the needed parameters	High
		1.2	Given I have a DICOM file, and the parameter I want does not exist in this DICOM file When I am trying to extract the needed parameters from this DICOM file Then the program will prompt a message that the needed parameter is null in the given DICOM file.	High
2	As a healthcare worker in ACDS, I want to validate the value of the extracted parameters are within the specification so that I can save much time.	2.1	Given I have extracted the value of parameters I want and a truth table and the truth table have the expected value of this parameter When I am trying to validate the value of these parameters Then I should get a pass/fail result.	High
		2.2	Given I have extracted the value of parameters I want and a truth table, however, there is no expected value of the parameter in the truth table. When I am trying to validate the value of these parameters Then the program will prompt a message that the expected parameter is not found in the truth table.	High
		2.3	Given I have extracted the value of parameters I want and a truth table, however, there is no expected truth table in the provided address from the user. When I am trying to validate the value of these parameters Then the program will prompt a message that the truth table is not found.	High
3	As a healthcare worker in ACDS, I want the validation result is printed in a CSV file so that I can view the result clearly.	3.1	Given I have validated the value of parameters When I am trying to view the result Then I should get a CSV file to view the result clearly	Medium
4	As a healthcare worker, I want the system can deal with multiple DICOM files at a time so that I can run the system once to get all I want.	4.1	Given I have multiple DICOM files to deal with and I just run the system once When I provide these DICOM files as the input of this system Then I should get the parameters of these DICOM files	Low

Acceptance Criteria ID	Step	Acceptance Test	Critical	Test Result
1.1	1.1.1	Jim uploads the DICOM file to the system, and he wants the value of Gantry Agle in this DICOM file.	Yes	Pass
	1.1.2	Jim runs the system.	Yes	Pass
	1.1.3	Jim sees that the system runs successfully and prompts a message that all parameters have been extracted.	Yes	Pass
1.2	1.2.1	Jim uploads the DICOM file to the system, and he wants the value of SSD in this DICOM file.	Yes	Pass
	1.2.2	Jim runs the extraction part of this system.	Yes	Pass
	1.2.3	Jim sees the system prompts a message that the expected parameter does not exist in the DICOM file.	Yes	Pass
2.1	2.1.1	Jim uploads a truth table which contains the correct value of Gantry Angle		
	2.1.2	Jim wants to validate the value of Gantry Angle. He runs the validation part of the system		

	2.1.3	Jim sees that the system runs successfully and prompts a message that the validation process is completed.	Yes	Pass
2.2	2.2.1	Jim uploads a truth table which not contains the correct value of collimator.	Yes	Pass
	2.2.2	Jim wants to validate the collimator and he wants to validate the collimator.	Yes	Pass
	2.2.3	Jim sees that the system prompts a message that the validation process is failed due to the correct value is not found.	Yes	Pass
2.3	2.3.1	Jim uploads the address where the truth table is located.	Yes	Pass
	2.3.2	Jim wants to validate the value of Gantry Angle and he runs the validation part of the system.	Yes	Pass
	2.3.3	Jim sees that the system prompts a message that the validation process is failed due to the truth table is not found.	Yes	Pass
3	3.1.1	Jim has validated the value of the Gantry angle, and he wants to view the result.	Yes	Pass
	3.1.2	Jim opens the CSV file the system produced	Yes	Pass
	3.1.3	Jim gets the value of the Gantry angle, also he sees the validation result in this CSV file.	Yes	Pass
	4.1.1	Jim uploads a batch of DICOM files, he wants the Gantry Angle of these DICOM files.		
	4.1.2	Jim runs the extraction part of this sytem once, it runs correctly		
	4.1.3	Jim sees the system prompts a message that the extraction of all gantry angle is completed		
	4.1.4	Jim runs the validation part of this system once, it runs correctly		
	4.1.5	Jim sees the system prompts a message that the validation of all gantry angle is completed		

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1.1	1.1.1	Jim uploads the DICOM file to the system, and he wants the value of Gantry Agle in this DICOM file.	Yes	Pass
	1.1.2	Jim runs the system.	Yes	Pass
	1.1.3	Jim sees that the system runs successfully and prompts a message that all parameters have been extracted.	Yes	Pass
1.2	1.2.1	Jim uploads the DICOM file to the system, and he wants the value of SSD in this DICOM file.	Yes	Pass
	1.2.2	Jim runs the extraction part of this system.	Yes	Pass
	1.2.3	Jim sees the system prompts a message that the expected parameter does not exist in the DICOM file.	Yes	Pass
2.1	2.1.1	Jim uploads a truth table which contains the correct value of Gantry Angle		
	2.1.2	Jim wants to validate the value of Gantry Angle. He runs the validation part of the system		
	2.1.3	Jim sees that the system runs successfully and prompts a message that the validation process is completed.	Yes	Pass
2.2	2.2.1	Jim uploads a truth table which not contains the correct value of collimator.	Yes	Pass
	2.2.2	Jim wants to validate the collimator and he wants to validate the collimator.	Yes	Pass
	2.2.3	Jim sees that the system prompts a message that the validation process is failed due to the correct value is not found.	Yes	Pass
2.3	2.3.1	Jim uploads the address where the truth table is located.	Yes	Pass
	2.3.2	Jim wants to validate the value of Gantry Angle and he runs the validation part of the system.	Yes	Pass
	2.3.3	Jim sees that the system prompts a message that the validation process is failed due to the truth table is not found.	Yes	Pass
3.1	3.1.1	Jim has validated the value of the Gantry angle, and he wants to view the result.	Yes	Pass
	3.1.2	Jim opens the CSV file the system produced	Yes	Pass
	3.1.3	Jim gets the value of the Gantry angle, also he sees the validation result in this CSV file.	Yes	Pass
4.1	4.1.1	Jim uploads a batch of DICOM files, he wants the Gantry Angle of these DICOM files.	Yes	Pass
	4.1.2	Jim runs the extraction part of this system once, it runs correctly	Yes	Pass
	4.1.3	Jim sees the system prompts a message that the extraction of all gantry angle is completed	Yes	Pass

| | 4.1.4 | Jim runs the validation part of this system once, it runs correctly | Yes | Pass |
| | 4.1.5 | Jim sees the system prompts a message that the validation of all gantry angle is completed | Yes | Pass |