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UC1: Start System	
Goal	To initiate the system and prepare to scan
Initiation	Operator opens the software on the computer.
Precondition	The computer has been booted
Postcondition	The software has activated Robot arm, 3D camera and Ultrasound scanner.
Main Scenario	1. Operator starts System
Exceptions	

UC2: Detect chest area	
Goal	To construct a depth image of Patients chest area, so that UC3 can be initiated
Initiation	Operator selects 3D Scan
Precondition	UC1 has been completed
Postcondition	Patients chest area has been scanned
Main Scenario	1. 3D camera scans chest area 2. 3D camera feeds boundary points to System 3. Operator verifies depth image • *[Depth image is distorted]*
Exceptions	• *[Depth image is distorted]* 1. Enter UC2, item 1.

UC3: Detect chest area	
Goal	To perform a medical sonography of the chest area
Initiation	Operator selects Ultrasound Scan
Precondition	UC2 has been completed
Postcondition	System has instructed Robot arm to move Ultrasound scanner in order to construct a medical sonographic image of Patients chest area
Main Scenario	1. Operator starts Ultrasound scanner 2. Operator chooses 'Ultrasound Scan' in System 3. System utilizes depth image from UC2 to feed Robot arm positions and rotations in order to move Ultrasound scanner 4. System stops Robot arm • *[Operator stops Robot arm]* 5. Operator stops Ultrasound scanner

Exceptions	• *[Operator stops Robot arm]*
	
	    1. Operator chooses 'Stop Ultrasound Scan' in System.
	    2. System stops moving Robot arm prematurely.

UC4: Stop system	
Goal	To stop System
Initiation	Operator
Precondition	UC1 has been completed
Postcondition	System has shut down
Main Scenario	1. Operator closes System software by hitting the Close button in the top right corner 2. Upon exit, Robot arm is set to default position 3. System shuts down
Exceptions	