User Interface Specification
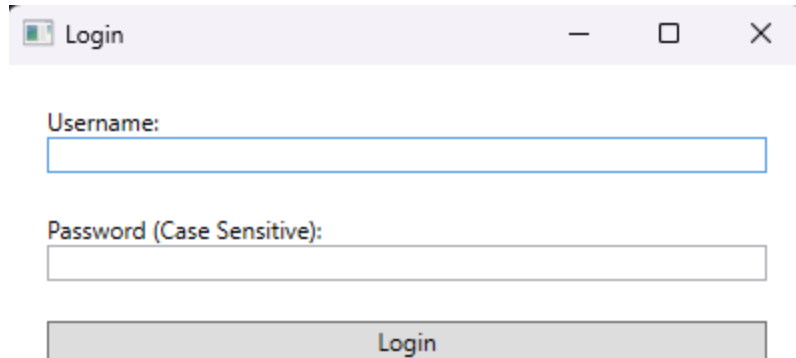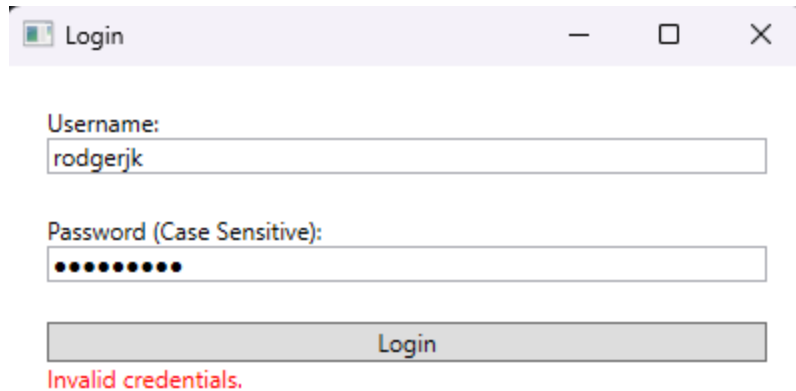
Login Window

Below is the login window that opens when you launch the application.

If the user enters incorrect login information, it looks like the following:

Main Window

The main window is broken into four main tabs: Patients, Inventory, Suppliers, and Order Tickets. I will go over each one.

Patients

As shown below, the Patients tab includes a listbox on the left containing the names of every patient in "Last name, First name" format. Selecting one will have that patient's information appear on the right. There are also three buttons, "Add New Patient", "Edit Patient Information", and "Create Work Order". The buttons all do what is named, but further details will be provided

later.

There is a search bar for the listbox on the left, and it is located above the listbox. Typing in this search bar will filter the listbox to only display patients whose display name has a substring matching what has been typed.

As you can see, above the box on the right there are two more tabs, "History" and "Additional". The History tab includes summarized information on all work orders the selected patient has had. As more work orders get added, this becomes scrollable so there is no limit to amount of

work orders displayed.

| Info | History | Additional |

Work Orders:

| **ID:** | 7 | **Type:** | Pickup |
| **Date:** | 1/15/2025 | **Notes:** | Note 621 |

The additional tab displays the information for the patient's emergency contacts. Each one will have their own entry displayed, with no limit and the window being scrollable.

| Info | History | Additional |

Emergency Contacts:

First Name:	Donna	**Middle Name:**	E
Last Name:	Ramirez	**ID:**	338
Street Address:	901 Ridge Ln	**Home Phone #:**	471847616
City:	Raleigh	**Cell Phone #:**	4759044241
State:	NC	**Zip Code:**	27604
Insurance:	Aetna	**Relationship:**	Sister

| **First Name:** | Sarah | **Middle Name:** | |
| **Last Name:** | Gonzalez | **ID:** | 538 |

Inventory

As shown below, the Inventory tab includes a listbox on the left containing the names of every equipment item, supply item, or part, depending on which tab is selected. Those tabs are seen above the listbox and they help with viewing inventory, as each inventory item falls into one of those three categories. There are also three buttons, "Add New Inventory", "Edit Equipment/Supply Item/Part Information" depending on which tab is selected, and "Create Work Order". The buttons all do what is named, but further details will be provided later.
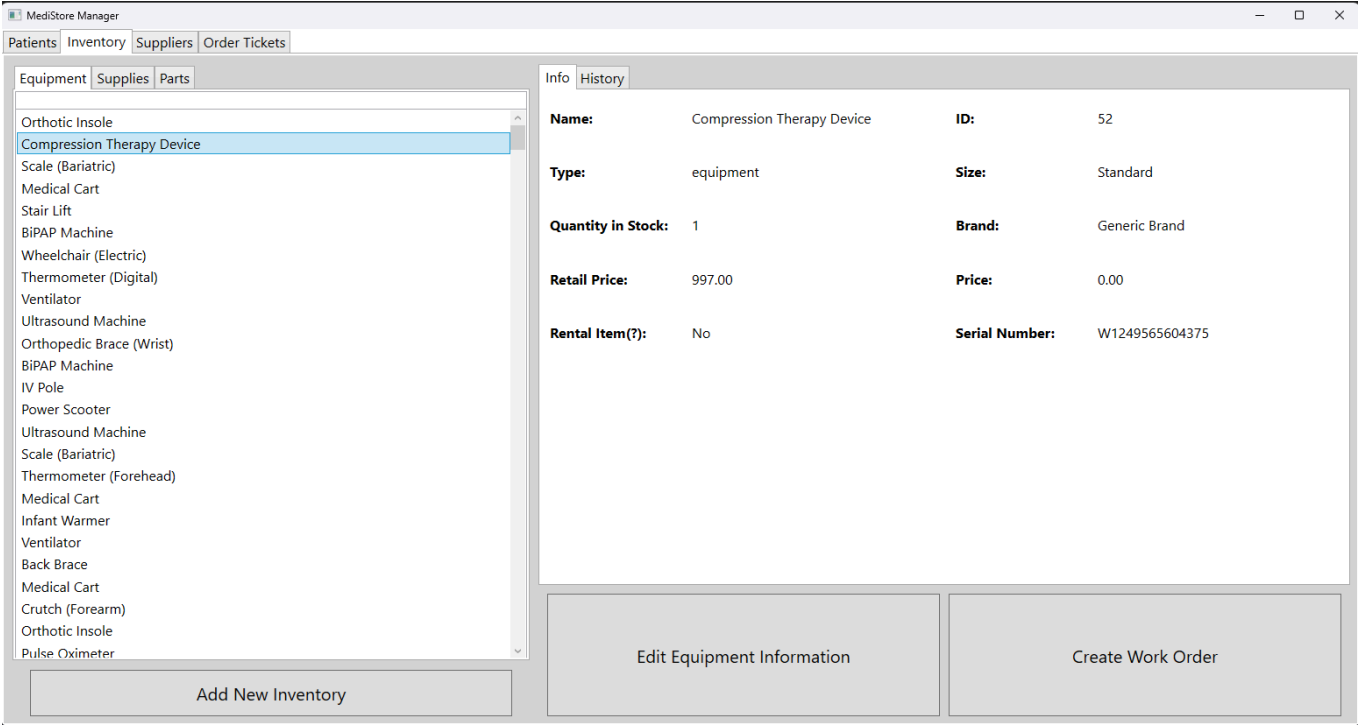
There is also a search box in the listbox on the left. This works exactly the same as the search box for patients, so I will not discuss it further here.

Each inventory item also has a history tab for the box on the right. Selecting it will display summarized information for all work orders and all supply orders that have included this inventory item. Both sections are scrollable, with Work Orders being large enough to display

two entries, and Supply Orders being large enough to display one entry.

Suppliers

As shown below, the Suppliers tab includes a listbox on the left containing the names of every supplier. Selecting one will have that supplier's information appear on the right. There are also three buttons, "Add New Supplier", "Edit Supplier Information", and "Create Supply Order". The

buttons all do what is named, but further details will be provided later.

There is also a search box in the listbox on the left. This works exactly the same as the search box for patients, so I will not discuss it further here.

Each supplier has a history tab that displays summarized information for every supply order from that supplier. The window is scrollable so there is no limit to the amount of supply orders

that can be displayed here.

Order Tickets

As shown below, the Order Tickets tab includes a listbox on the left containing the display names for every work or supply order, depending on which tab is selected. Those tabs are located above the listbox and allow the user to switch between viewing supply orders or work orders. The display name format for work orders, as they all are for a patient, is "Patient First name Last name - Order date". The display name format for supply orders, as they are all from a supplier, is "Supplier name - Order date". Selecting one will have that order's information appear on the right, with all relevant inventory items being scrollable as there can be any number of inventory items for an order. There are also three buttons, "Update Selected Work/Supply Order" depending on which tab is selected, "Create Work Order", and "Create

Supply Order". The buttons all do what is named, but further details will be provided later.

There is also a search box in the listbox on the left. This works exactly the same as the search box for patients, so I will not discuss it further here.

Add/Edit Patient Pop-up Window

Selecting "Add New Patient" will bring up this pop-up. The user will fill in all relevant information to save for the patient.

Add Patient — □ ✕

Patient Information

First Name: [   ]

Middle Name: [   ]

Last Name: [   ]

Home Phone #: [   ]

Cell Phone #: [   ]

Street Address: [   ]

City: [   ]

State: [   ]

Zip Code: [   ]

Insurance Provider: [   ]

Patient Contacts: [Add New Contact   ]

[OK]   [Cancel]

Selecting the "Add New Contact" button will pull up another pop-up window for the user to enter the contact information.

Add Contact — □ ✕

Enter Contact Information

First Name: [   ]

Middle Name: [   ]

Last Name: [   ]

Home Phone #: [   ]

Cell Phone #: [   ]

Street Address: [   ]

City: [   ]

State: [   ]

Zip Code: [   ]

Insurance Provider: [   ]

Relationship to Patient: [   ]

[OK]   [Cancel]

When a contact is added, it will appear beneath the button in "Last name, First name" format with an X next to it in case the user would like to remove it. Any number of contacts can be added and if there are enough the window will become scrollable to support the added length.

Insurance Provider: [_____]

Patient Contacts: [Add New Contact   ]

Rodgers, Jackson   [X]

[OK]   [Cancel]

Now, when the user selects "Edit Patient Information" it will pull up the same window with some minor differences. This window will be pre-filled with all existing information for the selected patient, and there will also be a delete button at the top to give the option to fully delete the patient. The delete button will be grayed out if the user does not have admin level privileges.

Add Patient   —   □   ✕

Patient Information

[Delete Patient   ]

First Name: [Kenneth]

Middle Name: [_____]

Last Name: [Lewis]

Home Phone #: [3068234914]

Cell Phone #: [3368012759]

Street Address: [237 Cypress Pl]

City: [Indianapolis]

State: [IN]

Zip Code: [46215]

Insurance Provider: [Aetna]

Patient Contacts: [Add New Contact   ]

Martin, Andrew   [X]

[OK]   [Cancel]

Add/Edit Inventory Pop-up Window

Selecting "Add New Inventory" will open this pop-up window. The user will enter all relevant information to save for the inventory item. The dropdown contains three values: "equipment", "supply", and "part". These are used to break down the inventory items into three separate

types.

Add Inventory   —   □   ✕

Enter Inventory Information

Name: [ ]

Type: [supply ⌄]

Serial Number: [ ]

Size: [ ]

Brand: [ ]

Quantity: [ ]

Price: [ ]
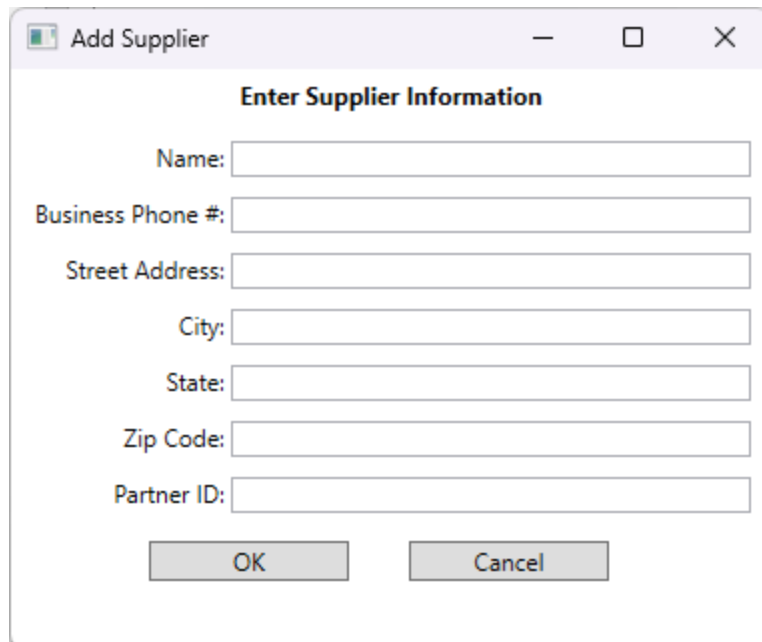
Retail Price: [ ]

Rental Item(?): ○ Yes ○ No ○ Not Applicable

Rental Price: [ ]

[OK]   [Cancel]

When the user selects "Edit Equipment/Part/Supply Item Information" button, it will open up this same window, though it will be pre-filled with the existing values for the selected item. The functionality of the delete button is the same as for patients.

Add Inventory   —   □   ✕

Enter Inventory Information

[Delete Inventory Item]

Name: [Compression Therapy Device]

Type: [equipment ⌄]

Serial Number: [W1249565604375]

Size: [Standard]

Brand: [Generic Brand]

Quantity: [1]

Price: [0.00]

Retail Price: [997.00]

Rental Item(?): ○ Yes ⦿ No ○ Not Applicable

Rental Price: [0.00]
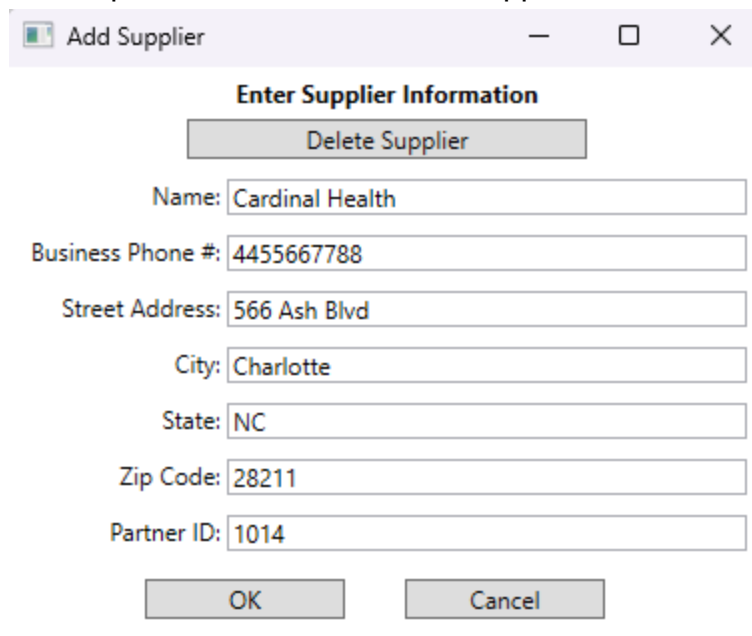
[OK]   [Cancel]

Add/Edit Supplier Pop-up Window

Selecting "Add New Supplier" will open this pop-up window. The user will enter all relevant information to save for the new supplier.

Selecting "Edit Supplier Information" button will open this same window, but with the existing values pre-filled for the selected supplier. The delete button works the same as for patient.

Create/Update Work Order Pop-up Window

Selecting "Create Work Order" will open this pop-up window. The first field has three possible options for Order Type: Delivery, Repair, and Pickup. The second field contains a list of all existing patients and the user can either scroll through and select the patient for whom this work order is for, or start typing in the search box and select the patient from the filtered list. This

allows the user to also search for a patient by ID number.

Work Order — □ ✕

Work Order

Order Type: [⌄]

Patient: [Anderson, Jessica [4]   ]

Williams, Michelle [1]
Nelson, Brian [2]
Lewis, Kenneth [3]
Anderson, Jessica [4]
Allen, Melissa [5]
Garcia, Charles [6]
Martinez, Daniel [8]

Inventory Items: [Add New Inventory Item   ]

Order Date: [Select a date   📅15]

Date of Payment: [Select a date   📅15]

Notes: [   ]

[OK]   [Cancel]

Selecting "Add New Inventory Item" in this window will open up a pop-up window containing a listbox, with a search bar, of all inventory items that are in stock and a quantity box. As work orders take from existing quantity, next to the quantity box shows the total number in stock and the user is not allowed to enter a higher value.

Inventory Selection — □ ✕

[Wheelchair (Electric)   ]

Compression Therapy Device [equipment]
Power Scooter [equipment]
Ultrasound Machine [equipment]
Orthopedic Brace (Ankle) [equipment]
Wheelchair (Electric) [equipment]
Portable Oxygen Tank [equipment]
Portable Oxygen Tank [equipment]
Fetal Doppler [equipment]
Exam Table [equipment]
Fetal Doppler [equipment]

Quantity: [1   ] /1

[OK   ]

Adding an inventory item will add it to the main pop-up window, where there will be an X button to delete it. The "Add New Inventory Item" will still appear as the user can select any number of inventory items. There will also be a button "Add Related Inventory" for each inventory item added. This is optional and will only be used for repairs. On a repair, the user would select the part being used for repair, and then the related inventory item will be the equipment that is being repaied.

Inventory Items: | Add New Inventory Item |

Wheelchair (Electric)   Qty: 1 | X |
Related Inventory:

| Add Related Inventory |

Selecting "Updated Selected Work Order" will open this pop-up window with all values pre-filled from the selected order. The Delete button works the same as for patients.

Work Order   —   □   X

Work Order

| Delete Work Order |

Order Type: | Pickup   ⌄ |

Patient: | Garcia, Karen [11] |
| Williams, Michelle [1] |
| Nelson, Brian [2] |
| Lewis, Kenneth [3] |
| Anderson, Jessica [4] |
| Allen, Melissa [5] |
| Garcia, Charles [6] |
| Martinez, Daniel [8] |

Inventory Items: | Add New Inventory Item |

Portable Oxygen Tank   Qty: 1 | X |
Related Inventory:

| Add Related Inventory |

Suction Machine   Qty: 1 | X |

| OK | | Cancel |

Suction Machine   Qty: 1 | X |
Related Inventory:

| Add Related Inventory |

Order Date: | 9/4/2024   🗓15 |

Date of Payment: | 9/8/2024   🗓15 |

Notes: | Note 726 |

| OK | | Cancel |

Create/Update Supply Order Pop-up Window

Selecting "Create Supply Order" will open this pop-up window. The first field has a button to "Add New Inventory Item". This works very similar to the same button in work orders, though it will have all inventory items, rather than just ones in stock, and there is no limit to the number entered, as it is adding to stock rather than taking from it. There is also no option to add a related inventory item. The second field is selecting the supplier, and this works pretty much exactly the same as selecting a patient in the work order window.

Selecting "Update Selected Supply Order" will open this same window, except with all values pre-filled based on selected order's information. The delete button works the same as for patients.

Supply Order

Supply Order

Delete Supply Order

Inventory Items:

Add New Inventory Item

Isopropyl Alcohol	Qty: 39	X
Hand Sanitizer	Qty: 33	X
Wound Cleansers	Qty: 92	X
Adhesive Bandages (Assor	Qty: 48	X
Elastic Bandages (Ace Wra	Qty: 4	X
Compression Stockings	Qty: 11	X

Supplier Name: Johnson & Johnson

Baxter International
Becton Dickinson
Cardinal Health
Fresenius Medical Care
GE Healthcare
Golden Technologies
Invacare

OK	Cancel

Invacare

Shipping Method: Overnight

Order Date: 7/12/2024

Received Date: 4/15/2024

OK	Cancel