Medical Suite User Guide

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Meets Requirements

Technologies

 The project was developed using ASP.NET Core Web Application (Razor Pages) and Microsoft SQL Server

• Registration

- The web application allows users to create an account by registering and asks users for the following information:
 - First name
 - Last name
 - Email
 - Password
 - Telephone

Authorization

- People who have not registered can only access pages and features that they are authorized to.
- o Patients can only access pages and features that they are authorized to.
- o Nurses can only access pages and features that they are authorized to.
- o Doctors can only access pages and features that they are authorized to.

• Item Management

- o Patients (users) can request (add), edit, and delete appointments (items)
- Nurses (other user/admin-like type) can add, edit, and delete appointments. Nurses can add, edit, and delete items from inventory. Nurses can add, edit, and delete users. Nurses can view prescriptions.
- Doctors (administrators) can add, edit, and delete appointments. Doctors can add, edit, and delete items from inventory. Doctors can add, edit, and delete users. Doctors can add, edit, and delete users. Doctors can add, edit, and delete prescriptions.

• Interface and Layout

- The interface and layout are responsive and have similar consistency from browser to browser (Google Chrome and Microsoft Edge).
- The interface and layout were developed using Bootstrap and designed with Bootstrap Icons.

Project Summary

Our project aims to streamline healthcare management by developing a comprehensive system that caters to the needs of patients, nurses, and doctors. At its core, the system enables patients to access and manage their profiles, view prescriptions, and schedule appointments conveniently. Patients have the autonomy to update their profiles and request appointments, while doctors and nurses possess the authority to manage all user profiles, items, and oversee appointments. Moreover, doctors can completely manage prescriptions, while nurses can only view them for reference. By providing a user-friendly interface and comprehensive functionalities, our project aims to enhance the efficiency and effectiveness of healthcare delivery, benefiting both patients and healthcare providers alike.

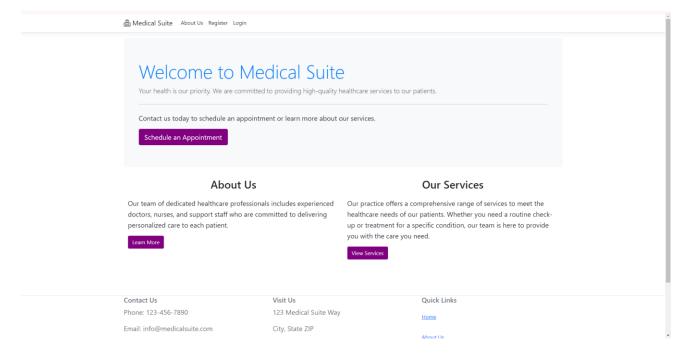
Features:

- 1. Landing/Home page
 - a. This page has general information about the Medical Suite, and buttons to schedule an appointment, learn more, and view services.
- 2. Registering
 - a. Users are able to create an account by registering with their information
- 3. Logging in
 - a. Users are able to log into their account by entering their information on the login page and pressing
- 4. Profile management
 - a. Users are able to view and edit their profile information in their account
 - b. Doctors and nurses can also view and edit other users profile information
- 5. Appointment management
 - a. Users are able to view and request appointments
 - b. Nurses and Doctors are able to view, add, edit, and delete appointments
- 6. Prescription management
 - a. Users are able to see the prescriptions that have been prescribed to them
 - b. Nurses are able to view patients' prescriptions
 - c. Doctors are able to view, add, edit, and delete prescriptions
- 7. Inventory item management
 - a. Doctors and Nurses are able to view, add, edit, and delete inventory items.

Structured Walkthrough

Generally:

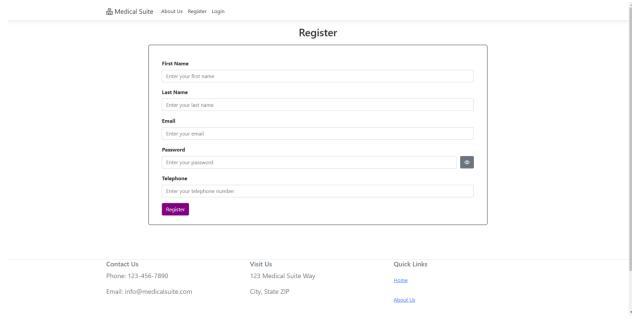
When someone comes to our website, they will be brought to our homepage. The home page has an "About us" section and button that will take users to the About Us page. It also has an "Our Services" section and button that will take users to the About Us page. Additionally, it has some welcome text, and a button to Schedule an Appointment. If the user isn't signed in, this will take them to the Login page. The about us page has some information about the doctor's office we developed this website for.



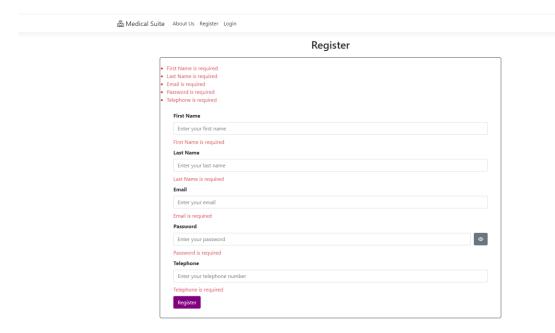
Using the nav bar, the user can navigate between the home page, about us page, register page, and login page.

r∰ Medical Suite About Us Register Login

The register page allows the user to put in their information (first name, last name, email, password, and telephone), then they may register. If some information is missing that is needed, the user will be told before they are able to register. After clicking "Register", users are taken to the login page.

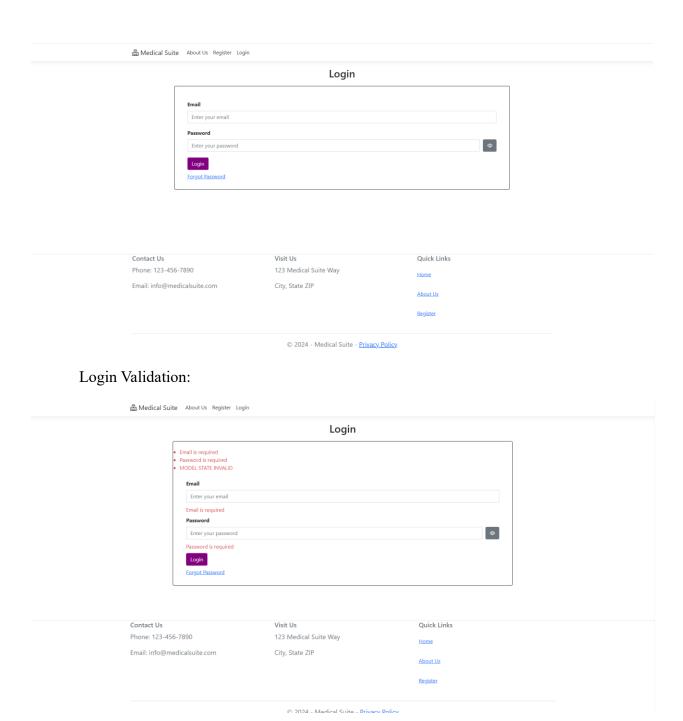


Registration Input Validation:



The login page allows users to put in their information (email and password) to log into their account, after clicking "Login" users will be taken to their profile. Additionally, if a

user forgets their password, they can click on "Reset Password" and they will be taken to the reset password. After logging in, the nav bar will update based on whatever the users role is. Note that if you become a user added in the fashion described here, you will be registered as a patient.

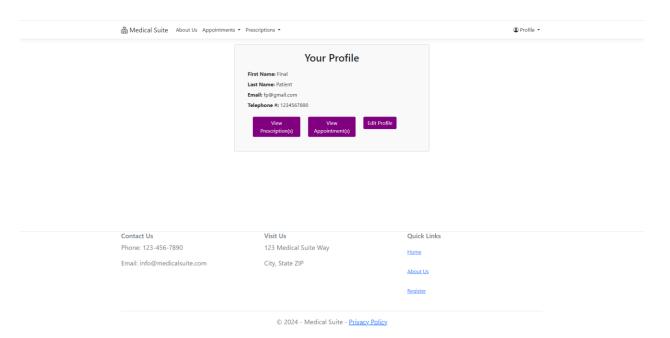


The reset password page allows users to put in their information (email and new password) to reset their password. After clicking "Reset Password" users' passwords are reset and they are taken to the login page.

- Medical Suite	About Us Register Login			
	Email Enter your email New Password Enter your password Reset Password		٠	
Contact Us Phone: 123-456-	7890	Visit Us 123 Medical Suite Way	Quick Links	
Email: info@med	licalsuite.com	City, State ZIP	About Us	
			Register	
		© 2024 - Medical Suite - E	Privacy Policy	

Patients:

The profile page allows patients to view their information. Additionally, if the patient wants to view their prescriptions, they can click on view prescriptions; this will take them to the page to view their prescriptions. Furthermore, if the patient wants to view their appointments, they can click on view appointments, and will be taken to the view appointments page. Finally, if a patient wants to edit their profile, they can click on edit profile and will be redirected to the edit profile page.

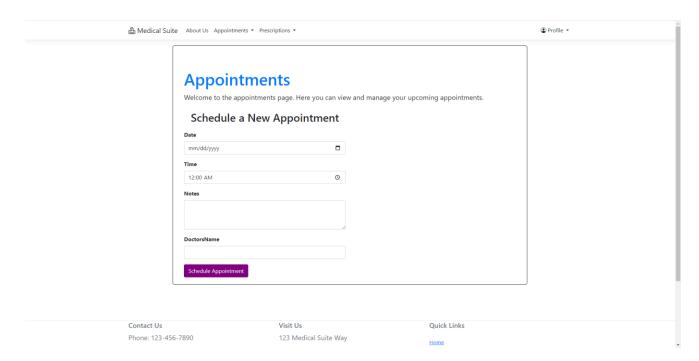


With the new nav bar, the patient now can click on their profile to view their profile page, or they can sign out.



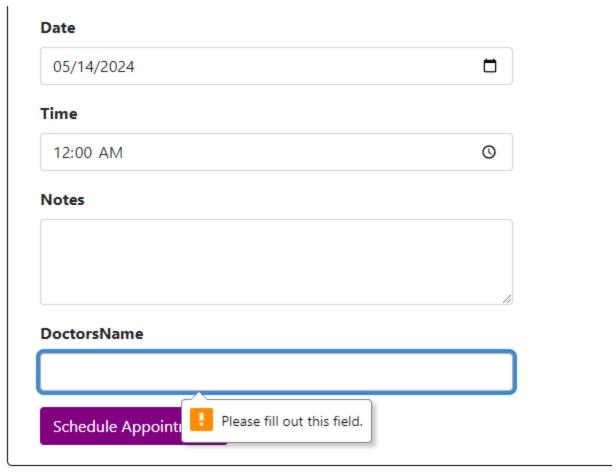
☑ View Your Prescriptions

The request appointment page allows patients to input information about the appointment they are requesting. Then they can schedule the appointment and will be taken to the view appointments page.

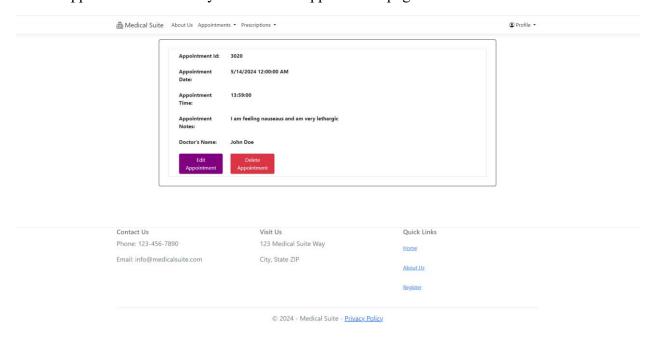


Input validation for requesting appointment:

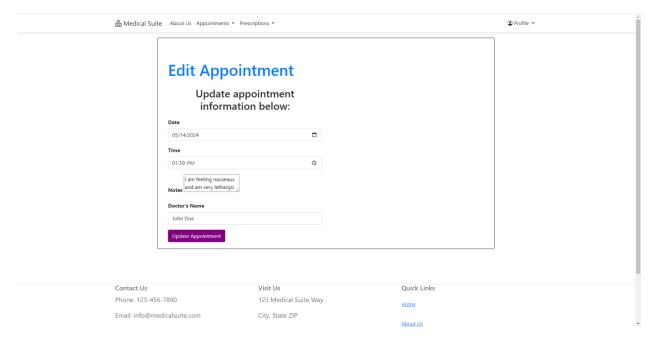




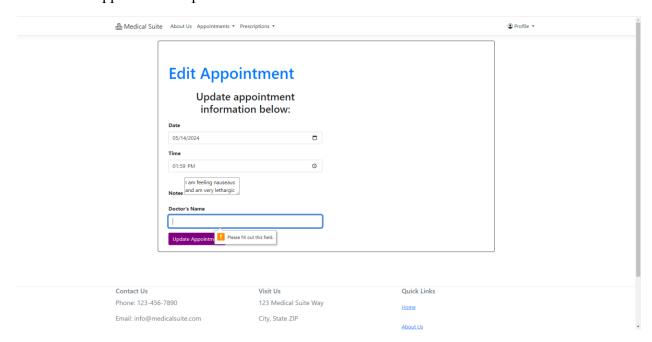
The view appointment page lists all the patients appointments, along with an edit and delete button. Pressing the delete button will delete the appointment. Pressing the edit appointment will take you to the edit appointment page.



The edit appointments page allows the patient to edit the information regarding an appointment. After inputting the correct information, the patient can press "Update Appointment" and the appointment will be updated and they will be taken back to the view appointments page.



Edit appointment input validation:

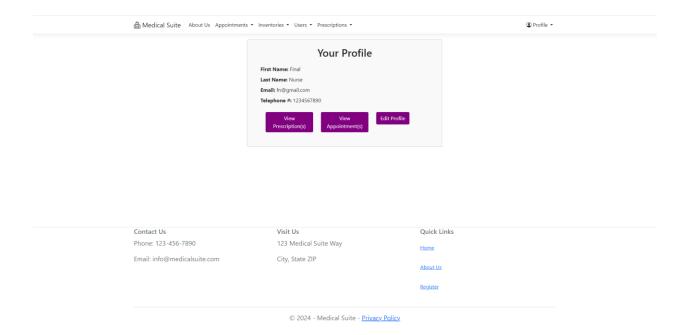


The view prescriptions page allows users to see all of their prescriptions. They can go back with the browsers back button or use the nav bar to go to another page within Medical Suite.

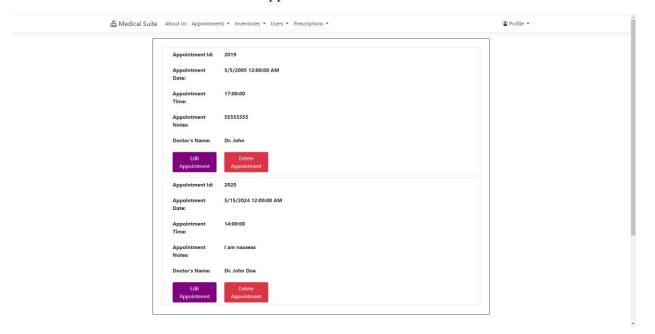
Medical Suite About Us Appointm	nents ▼ Prescriptions ▼		② Profile ▼
Prescription ID: Prescription Name: Prescription Strength: Prescription Quantity: Prescription Directions: Written Date: Expiration Date: Prescription Category: Person ID: Doctor:	2 Meclizine 500 mg 60 Take one every morning with food and one before bed, af 2024-05-10 2024-06-09 14 3011 Dr. John Doe	er dinner.	
Contact Us Phone: 123-456-7890	Visit Us 123 Medical Suite Way	Quick Links	
Email: info@medical suite.com	City, State ZIP	About Us Register	
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Nurses:

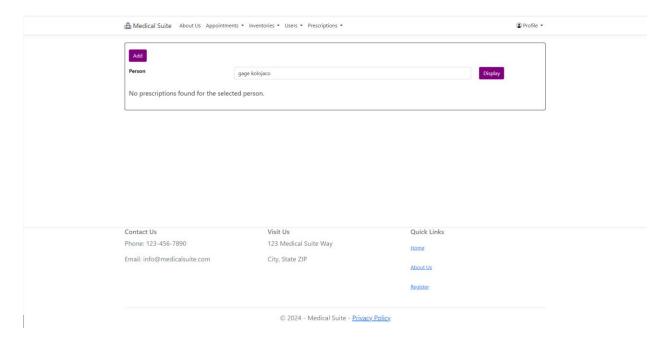
Nurses have a very similar profile layout to patients, but the "View Prescription(s)" button shows the nurse all the prescriptions, and the "View Appointment(s)" shows the nurse all of the appointments.



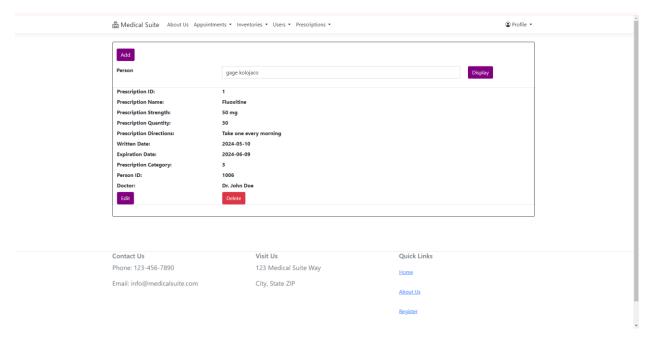
After the nurse clicks on View Appointments:



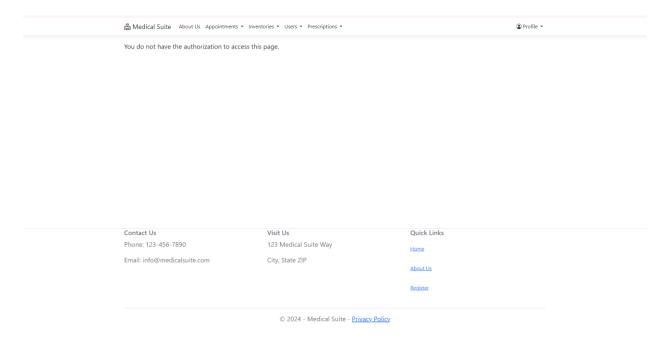
After the nurse clicks on View Prescriptions:



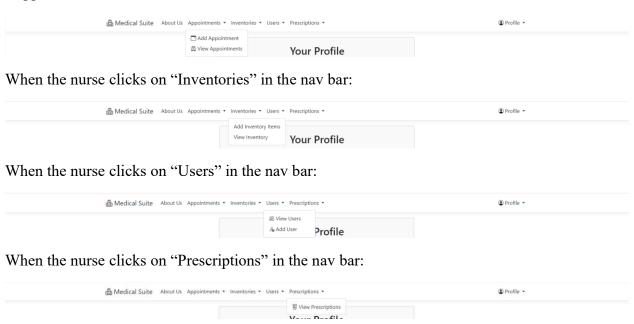
The nurses can then pick which patient to display their prescriptions:



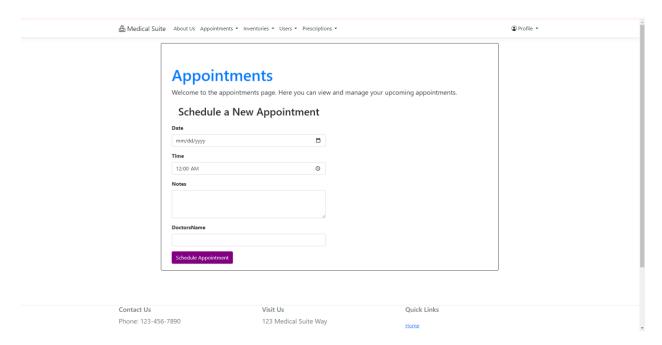
Notice that there is an add button. If the nurse presses it, she will go to the not authorized page:



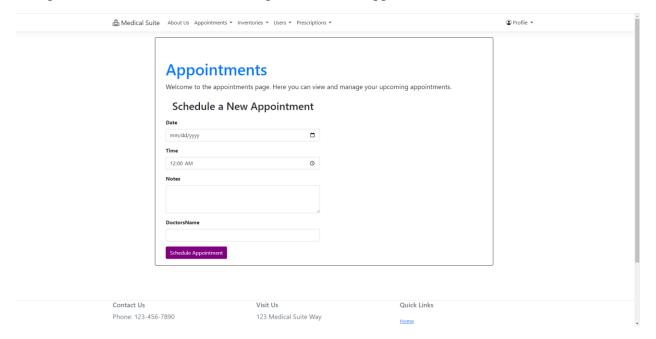
Nurses also have a slightly different nav bar than the patients. When the nurse clicks on "Appointments" in the nav bar:



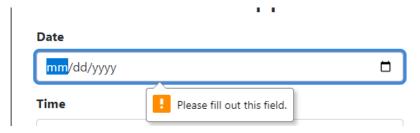
Using the nav bar, when the nurse navigates to "Add Appointment":

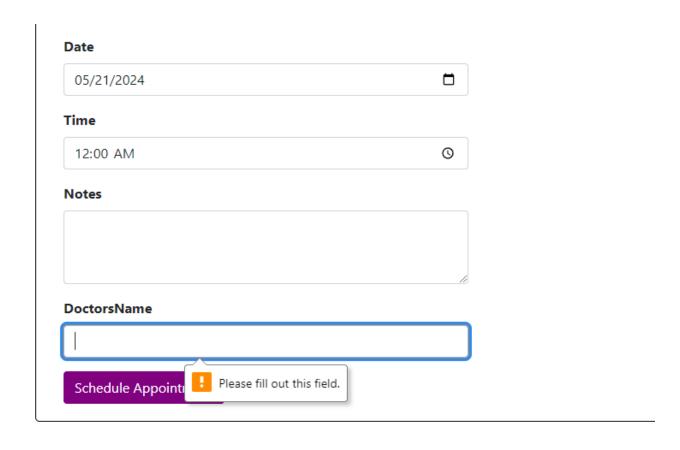


Using the nav bar, when the nurse navigates to "View Appointments":

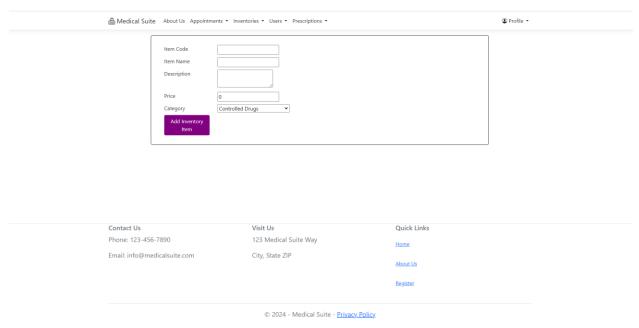


Add input validation:

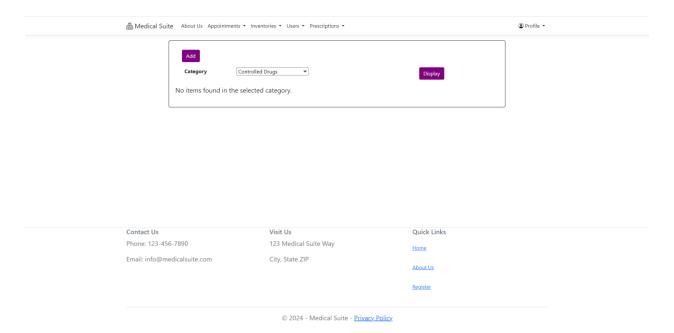




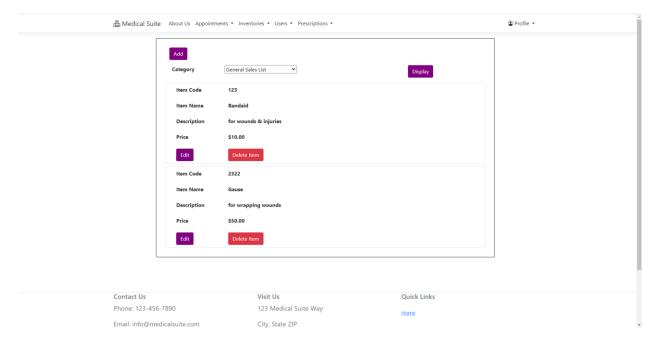
Using the nav bar, when the nurse navigates to "Add Inventory Items":



After filling it out, the nurse will be taken to the "View Inventory Items" page (they can also get here using the nav bar):

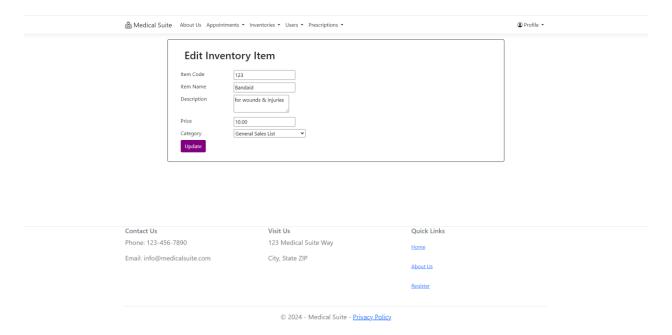


The nures can then pick a category of items, and then press "Display" to see all the items from that category:

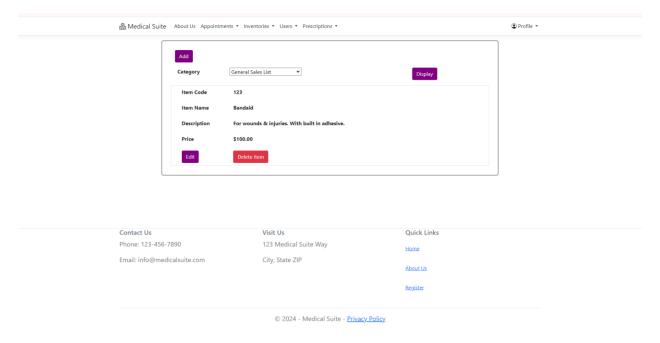


If the nurse presses "Add", they will go back to the add inventory item page.

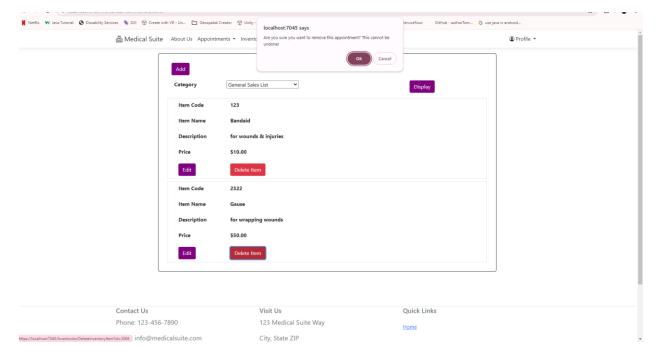
The nurse can press "Edit" and will go to the edit item page where they can update the inforation about the item:



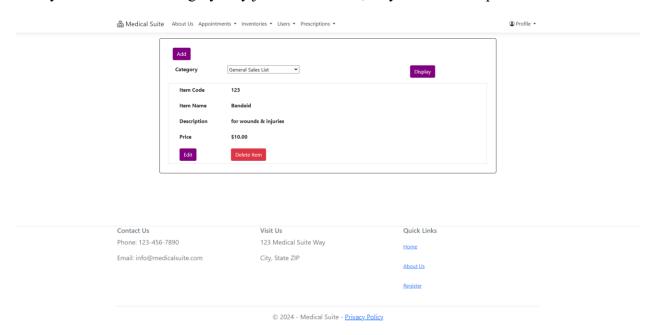
After they make the updates they want to, they can press "Update" and they will go back to the view inventory items page, and they can select the catetory of the item they changed, and then press "Dispaly" to see the updates:



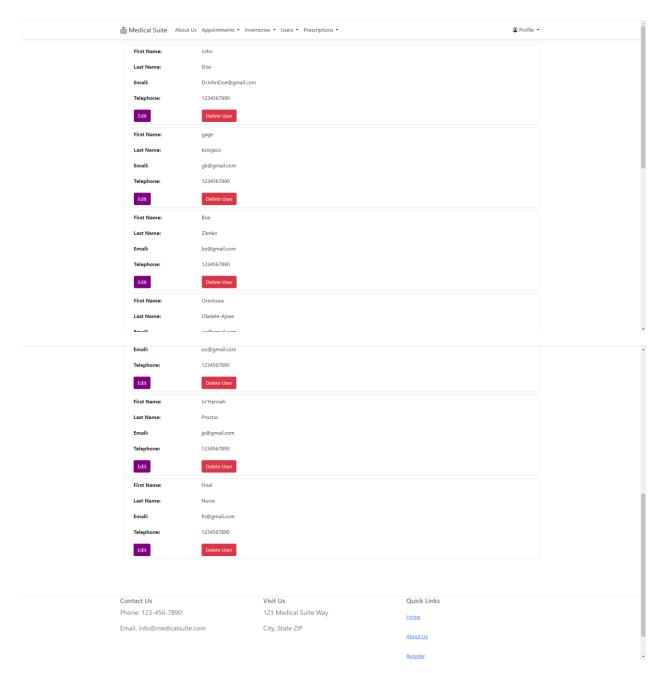
The nurse can press "Delete Item" and will be asked to make sure they want to delete the item with a pop up.



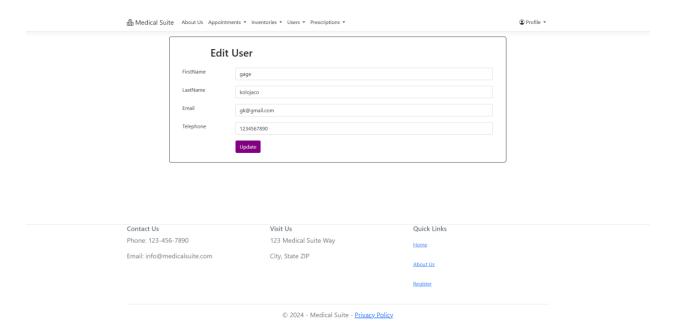
After pressing "OK" the item will be deleted. And the nurse will go back to the view items page. If they select the same category they just deleted from, they will see the update:



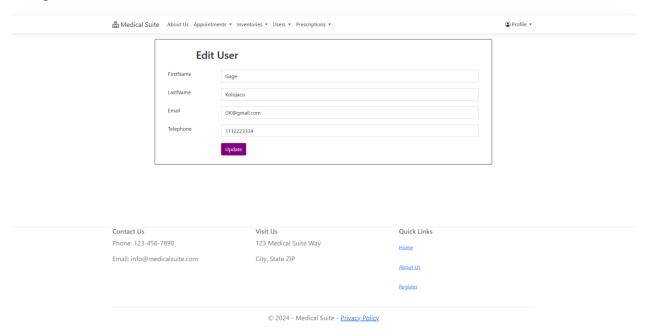
Using the nav bar, when the nurse navigates to "View Users":



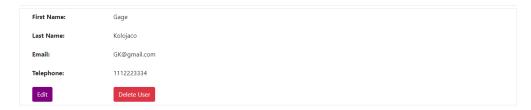
When the nurse clicks on "Edit":



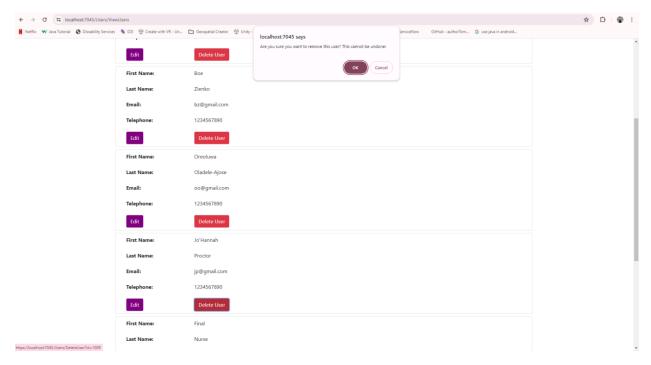
Then nurse can then change the fields they wish of that user and press "Update" to save the changes:



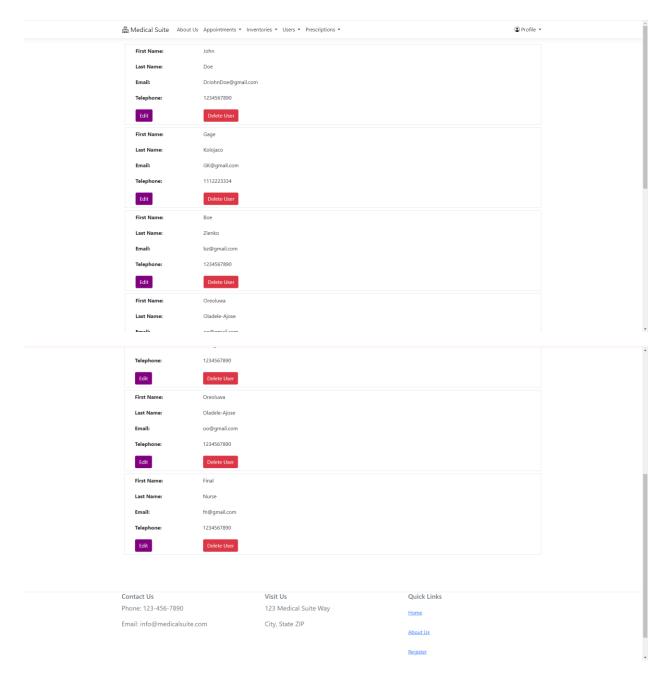
After the nurse presses "Update":



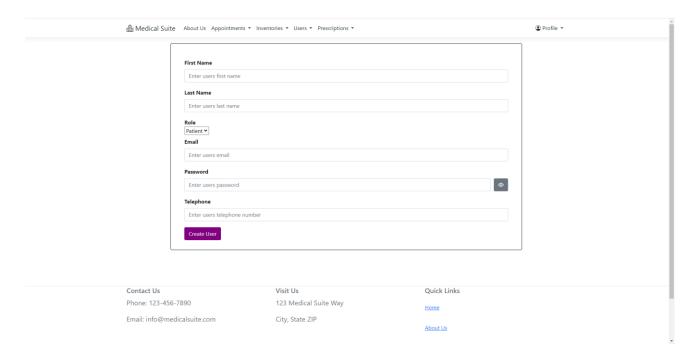
The nurse can also delete users by pressing the "Delete User" button. They will be given the popup at the top to confirm that they are sure:



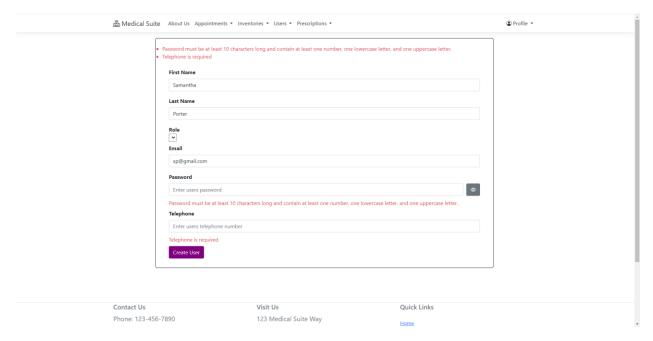
After pressing "OK", the user will be deleted and the nurse will go back to the "View Users" page:



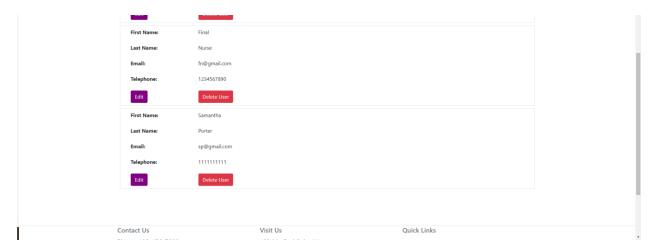
Using the nav bar, when the nurse navigates to "Add User", they are asked to fill in the users information. They can also assign roles, so using this method, nurses can make more nurses and doctors:



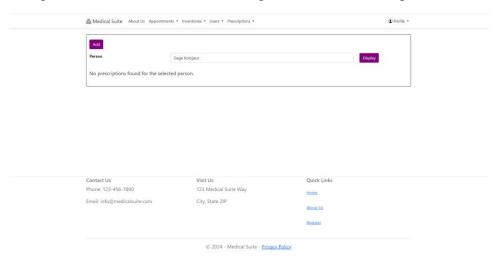
If the nurse tries to create someone with out filling out all fields, or putting in a bad password and tries to "Create User":



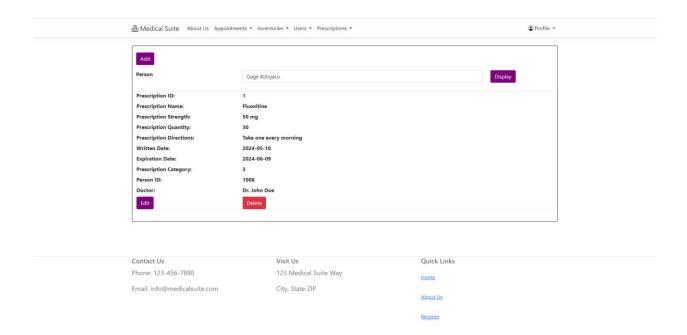
After the nurse puts in the correct information, they can press "Create User" and a new user will be added to the database, and the nurse will go to the "View Users" page so they can see the new users they made:



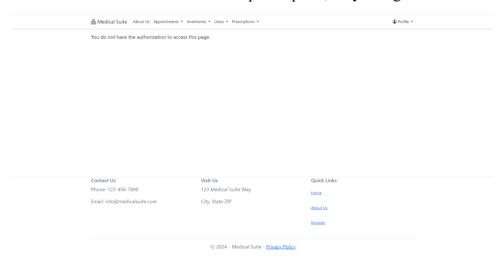
Using the nav bar, when the nurse navigates to "View Prescriptions":



The nurse can then select which person's prescriptions they want to view, and then press "Display", and that persons prescriptions will be displayed:



If the nurse tries to delete or edit the prescription, they will go to the Access Denied page:

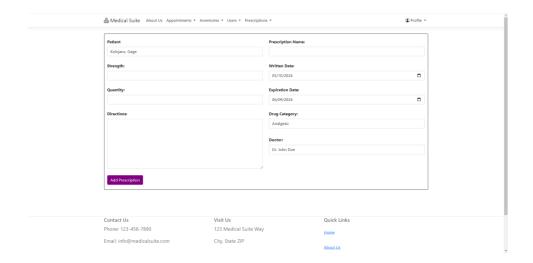


Doctors:

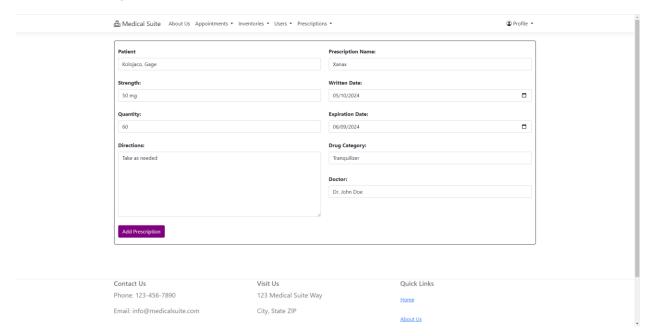
In addition to everything nurses can do, Doctors can also add prescriptions. So when doctors click on the "Prescriptions" on the nav bar, they see this:

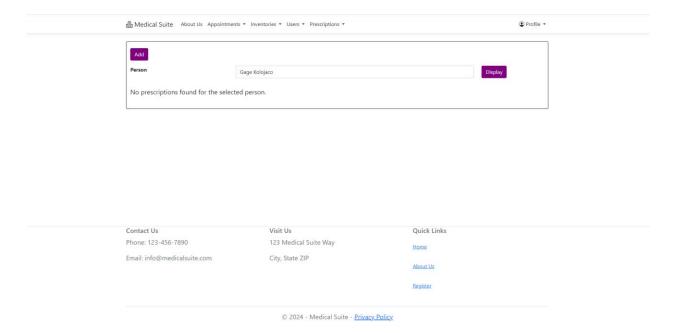


After using the nav bar to go to the "Add Prescriptions" page, doctors see:

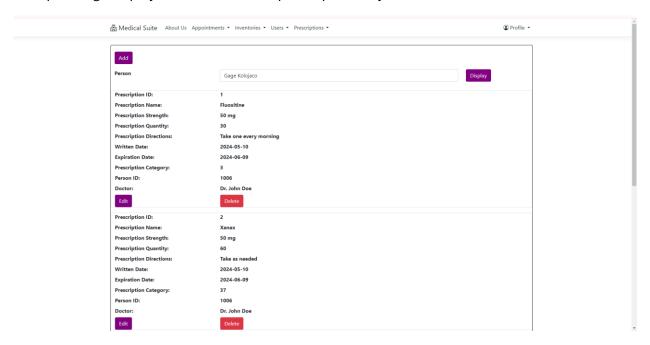


After filling out the fields and pressing add prescription, the Doctor will be taken to the View prescirptions page:

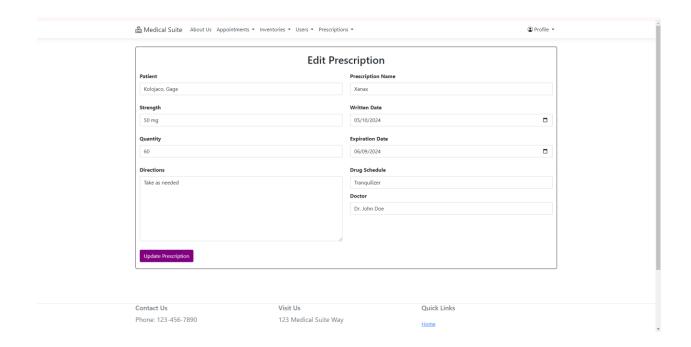




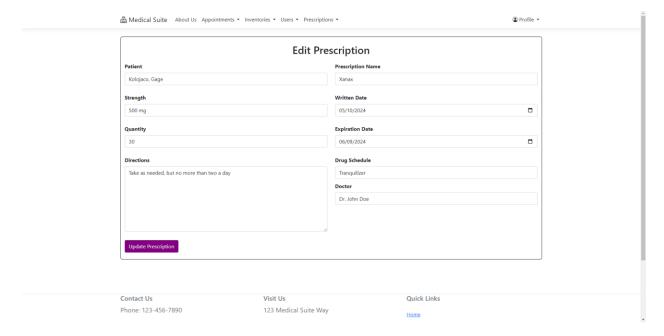
After pressing "Display" on the user who's prescription they added:

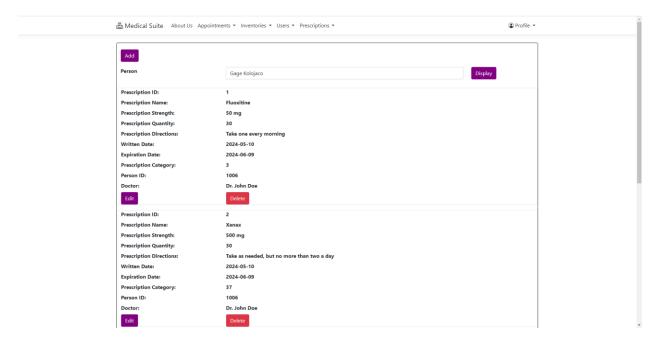


Doctors can also edit prescriptions. After pressing "Edit":



After changing fields and pressing "Update Prescription" the doctor will be taken to the view prescriptions page, so they will need to select the patient who's prescription they updated to see the updates:





There is also an "Add" button in the top right corner, and by pressing that, the doctor will be taken to the add prescription page for the selected patient:

