



USER MANUAL

Multiple Sclerosis Doctor Application

Telemedicine Final Project – December 2024

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Table of contents

1. General Information.....	2
1.1 Application overview	2
2. Application features	3
2.1 Server Connection.....	3
2.2.1 IP Address	3
.....	3
2.2.2 Server Port	3
2.3 Home Screen.....	3
2.3.1 Sign up.....	4
2.3.2 Log in	4
2.4 Doctor dashboard	5
2.4.1 View My Information	5
2.4.2 View Patients	6
2.4.2.1 View	6
2.4.3 View Reports.....	7
2.4.3.1 View Details	8
2.4.4 Settings	8
2.4.5 Log Out	9

1. General Information

1.1 Application overview

The application, Multiple Sclerosis Doctor, is designed for neurologists specialized in Multiple Sclerosis disease to remotely monitor their patients' health state through an intuitive and efficient interface. Patients record their ECG (Electrocardiogram) and EMG (Electromyogram) signals and report their symptoms directly to their assigned doctor.

This system ensures that neurologists have access to accurate, real-time data, enabling them to track patient progression and make timely medical decisions. By maintaining consistent records of physiological data and symptoms, neurologists can provide more personalized care and respond effectively to any changes in the patient's condition.

2. Application features

2.1 Server Connection

2.2.1 IP Address

The initial IP address configured is "localhost"

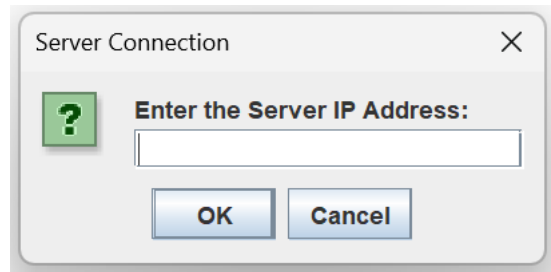


Figure 1. Server connection (IP Address)

2.2.2 Server Port

The initial port for doctors' access is "9001"

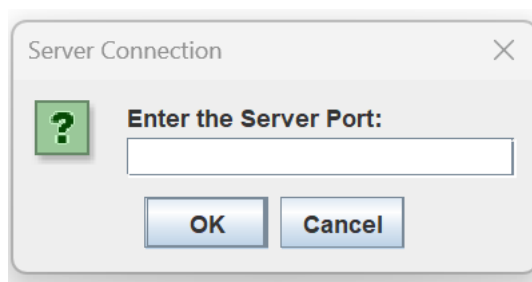


Figure 2. Server connection (Port)

2.3 Home Screen

Upon launching the application for the doctor, the home screen provides two primary options: Sign Up and Log In.

Click on the "Sign Up" button if you do not have an account and want to create one.

Click on the "Log In" button if you already have an account and want to log in.

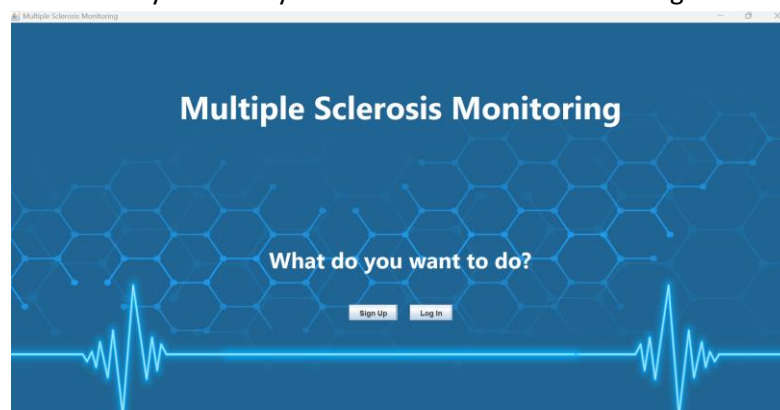


Figure 3. Home Screen

2.3.1 Sign up

In order to sign up and create an account in the app, the user must fill out the form displayed in the screen with accurate information (full name, surname, username, and password). All fields must be filled out as the pattern is expected, otherwise an alert will pop up on the screen. Once the details are completed, click OK to finalize the registration.

A screenshot of a 'Sign Up' form on a blue background with a hexagonal pattern. The form has four input fields: 'Name:' with 'DR.Marcos', 'Surname:' with 'Perales', 'Username:' with 'doctor.perales@multipleSclerosis.com', and 'Password:' with a masked password '.....'. Each field is preceded by its label in bold white text.

Figure 4. Sign Up

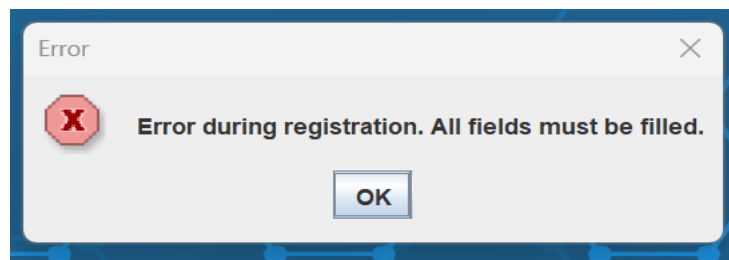


Figure 5. Error Field Alert

2.3.2 Log in

The Doctors who have already registered can now log in by selecting Log In from the home screen, entering their registered username and password, and clicking OK. If incorrect credentials are entered, an error message will appear.

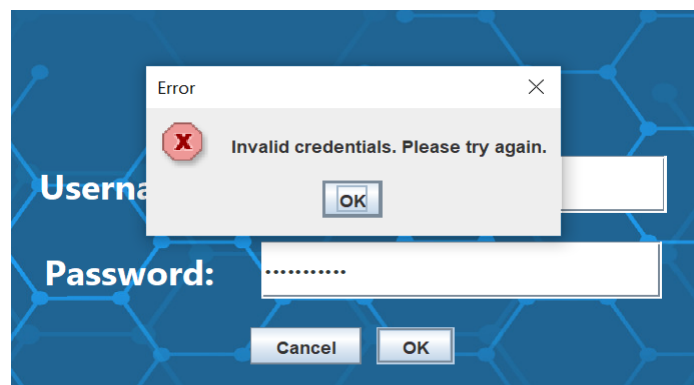


Figure 6. Error Invalid Credentials for Doctor



Figure 7. Log in successful for doctor

2.4 Doctor dashboard

Once logged in, the system provides several features, including viewing my personal details, view assigned patients and reports, modifying settings, or logging out.



Figure 8. Doctor dashboard

2.4.1 View My Information

To view the doctor's professional information, the doctor can click on the "View My Information". This action will display the doctor's name and specialty, providing you with quick access to verify your professional information.

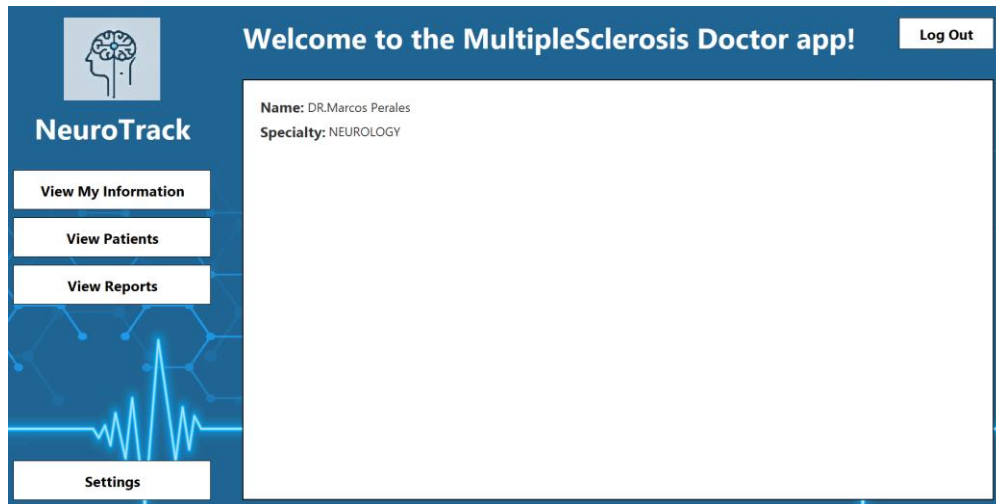


Figure 9. View personal information

2.4.2 View Patients

To manage patients assigned to each doctor, we can control it with the "View Patients" button. A searchable list of your patients will appear, displaying their name and surname. The doctor can also use the search bar to locate a specific patient quickly. Once the doctor find the desired patient, the doctor can manage individually to.

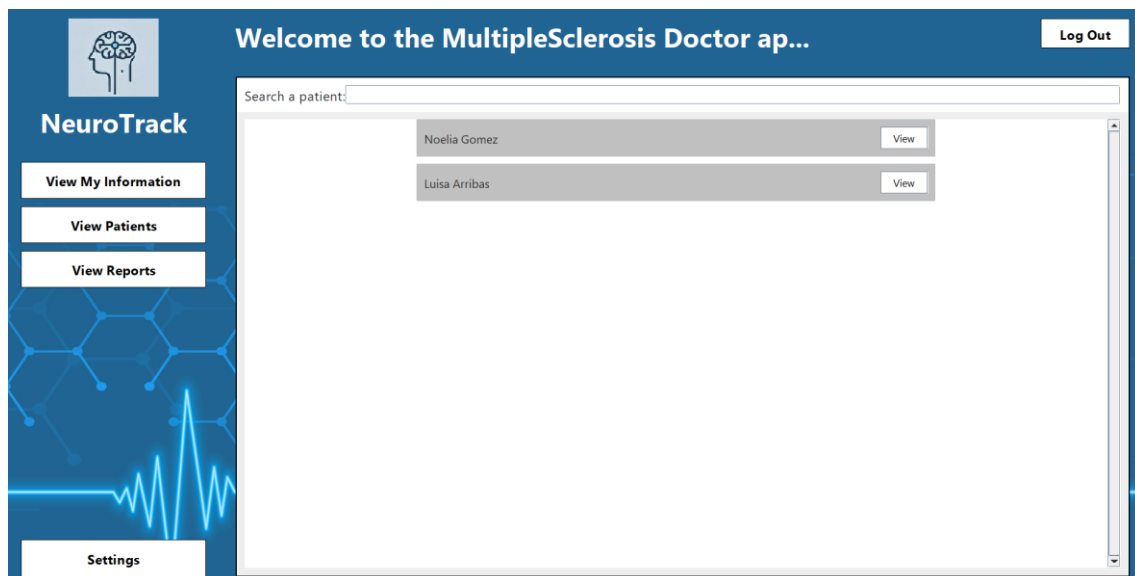


Figure 10. View patients assigned to the doctor

2.4.2.1 View

Clicking the View of a specific patient, the doctor can see its content in detail. Including name, surname, date of birth, gender, phone number and reports associated to that patient.

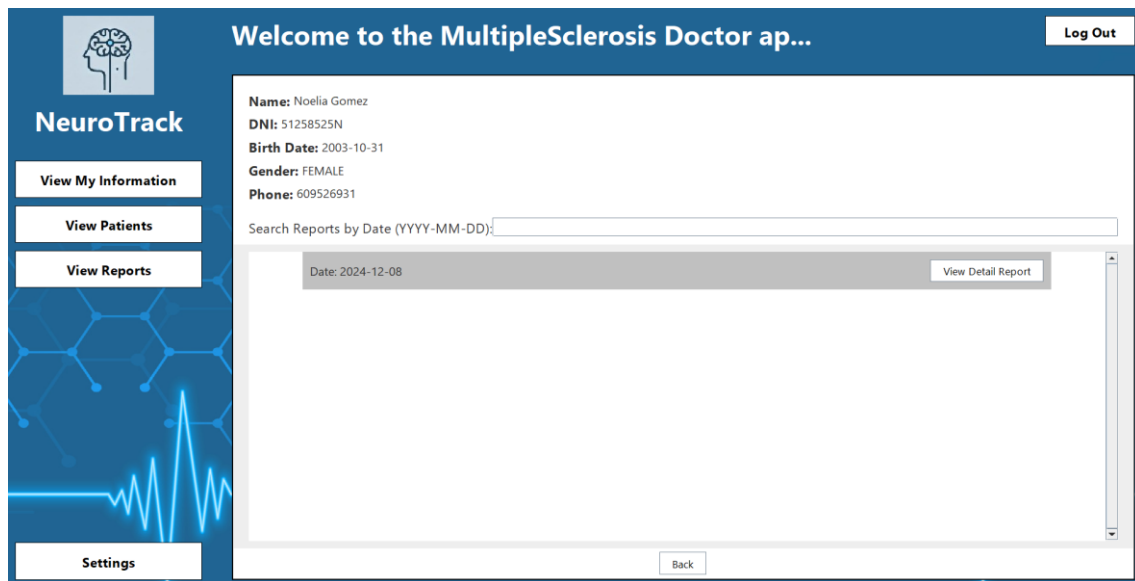


Figure 11. View detailed information about a patient

2.4.3 View Reports

To review all the reports, there is a "View Reports" button. You can use the search bar to filter reports by date in the format indicated YYYY-MM-DD. The system will display a list of available reports, including the report date and the corresponding patient name.



Figure 12. View reports of all patients associated to the doctor

2.4.3.1 View Details

Clicking this section, the doctor has access to specific report information and reviews its content in detail, to make appropriate feedback.

2.4.4 Settings

This bottom enables the doctor to update information to the system. This feature allows for customization of the application, ensuring it suits the doctor’s actual information needs and preferences on its password.

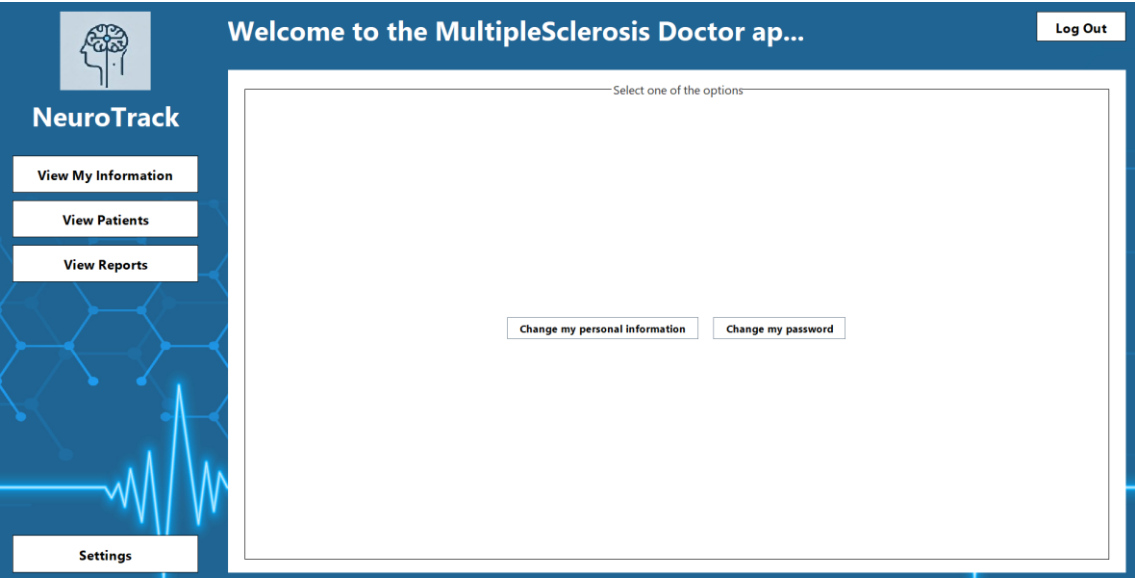


Figure 14. Settings of the doctor

Name:

Surname:

Figure 15. Update personal information

New Password:

Confirm Password:

Figure 16. Update password

2.4.5 Log Out

Finally, when a doctor decides to log out of the application, a confirmation dialog appears, this ensures that the decision to log out is intentional, preventing accidental disconnection. Once the action is confirmed, the application securely ends the user's session, protecting the patient's account and ensuring the confidentiality of their data.

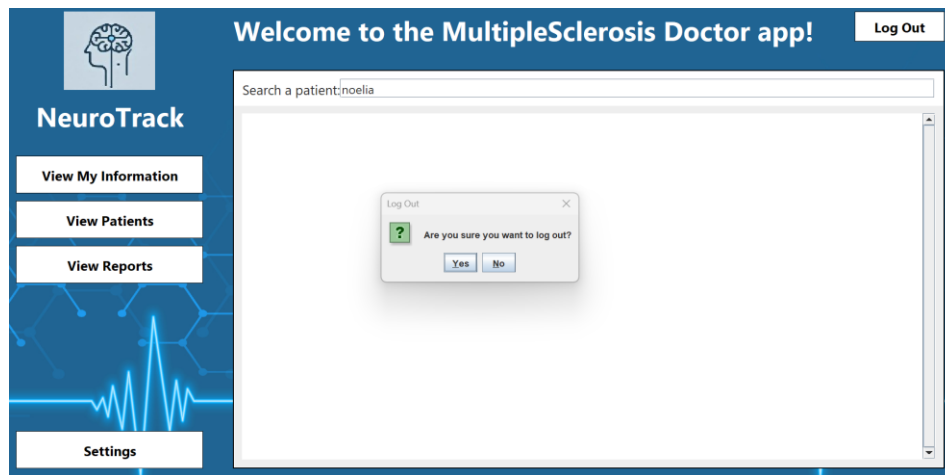


Figure 17. Log out