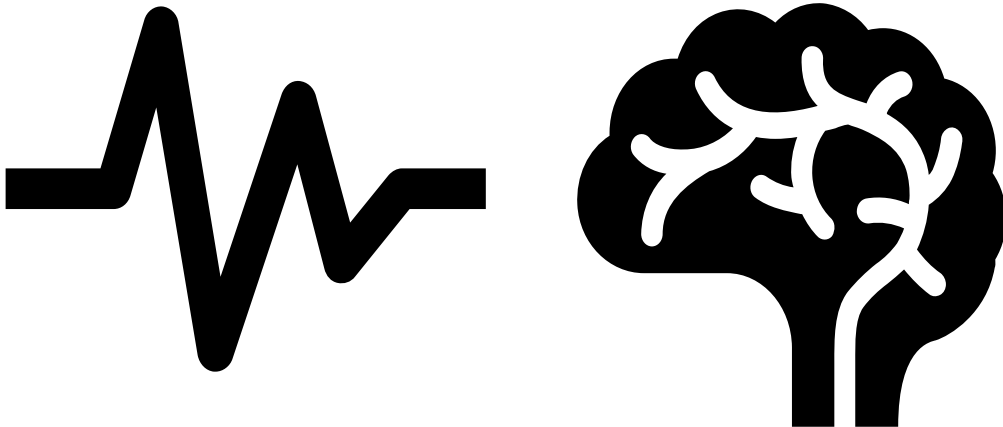# *SLEROSISCARE*

ADMINISTRATOR MANUAL

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Welcome to SclerosisCare

Welcome to the SclerosisCare Administrator's Manual, the advanced telemedicine platform designed for the efficient and secure management of multiple sclerosis (MS) patient data. This manual provides administrators with comprehensive guidance for configuring, administering, and maintaining SclerosisCare, ensuring an optimal environment for remote monitoring and patient treatment.

SclerosisCare not only revolutionizes the way multiple sclerosis is addressed, but it also gives administrators powerful tools to manage users, securely access critical data, and ensure the confidentiality of patient information. From initial installation to implementation of upgrades, this manual will provide you with the knowledge needed to maximize the efficiency and performance of SclerosisCare in your medical environment.

1. Overview

The SclerosisCare server is a multi-thread server based on the TCP protocol that is capable of accepting the connection of several clients and doctors at the same time. It is the application responsible for providing services and supporting the requirements of clients / doctors in addition to managing the database where their data will be stored. Access to the server will be controlled through a registration and log-in process that, in addition to enhancing security, will allow control of the users who use this service.

2. Run the app

To start the SclerosisCare server, follow these steps from the terminal:

1. Open the Terminal:
   - On Windows, you can use Command Prompt or PowerShell.
   - On Linux or macOS, use the Terminal.

2. Navigate to the JAR File Directory:

Use the 'cd' command to switch to the directory where the JAR file is located. For example:

cd path/from/directory/where/is/the/file

3. Run the JAR File:

Use the following command to run the SclerosisCare server:

java-en server2023.jar

4. Press Enter:

After typing the command, press Enter to start the server.

Remember that you need to have Java installed on your system and configured the 'java' environment variable in your terminal. Also, be sure to provide any additional settings or server-specific arguments as needed. The SclerosisCare server should be launched and ready to use!

3. Downloading and installing DB Browser

DB Browser for SQLite is the application used to access the database where

the information that reaches our server is monitored.

The steps for its correct installation and operation are:

1. *Download the DB Browser application. Attached below is a link that directs you to the website of the application where you have several versions of the application: https://sqlitebrowser.org/dl/ Choose the version based on the computer you are using.*

2. *Open the application and select open database option that appears at the top left.*
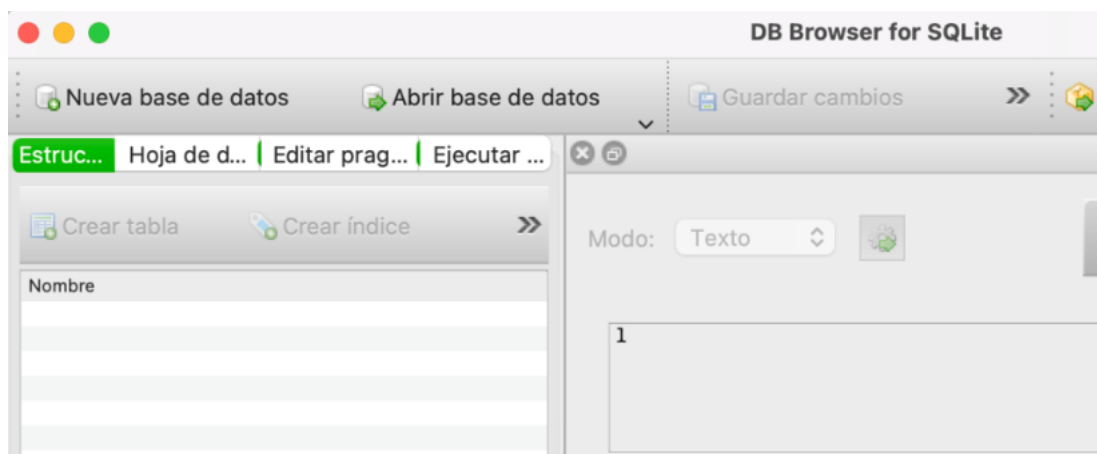
At this point you will only have to find where you have saved the project, access the "db" folder and select the database

The process will always be the same every time you want to query data in the database.

4. Database structure

The database is accessible from the DB Browser application (as discussed in point 3). In it we store information regarding client, doctor, test of each client and registered users.

Client:

- *ID*

- *Name*

- *ID of the Doctor who treats that patient*

- *User ID*

Doctor:

- *ID*

- *Name*

- *User ID*

Test:

- *ID*

- *Date*

- *Signal*

- *Frequency*

- *Column (refers to the values monitored by the Bitalino during a specific number of cycles)*

- *Client ID*

User:

- *ID*

- *Username*

- *Password*

- *Role ID (Automatically assigned as the connection is initialized on the doctor or client interface. 1-client, 2-doctor)*

4. Communication protocol used

SclerosisCare uses the Transmission Control Protocol/Internet Protocol (TCP/IP) as the basis for efficient and secure communication between devices in your

environment. TCP/IP is a set of protocols that facilitates the transmission of data over networks, allowing different systems to communicate consistently on the telemedicine platform.

In simple terms, the TCP/IP protocol breaks communication into small packets of data for sending and reassembles them at the destination. This ensures a reliable and orderly delivery of information, essential to the integrity of the medical data collected by SclerosisCare. In addition, TCP/IP provides unique IP addresses to identify each device on the network, facilitating the correct routing and delivery of information.

5. Stop the server

To stop the server, all you have to do is enter the number '0' through the terminal. If there are still active client/doctor connections at that time, a warning message is displayed to you. If you also want to close the server, you must enter '1', if on the contrary you decide not to close the server, you must enter the number '2'.