PATIENT MANUAL

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REMOTE MONITORING FOR PARKINSON DISEASE

Patient Application Manual:

Welcome to the Patient Application. This application is designed to allow patients to connect to a healthcare server, register, log in, track personal health information, and create and manage reports.

Step 1: Launch the Application

To begin, run the Patient Application. The app will attempt to establish a connection with the server.

- IP Address and Port: When prompted, enter the server's IP address and port. Ensure these details are correct for a successful connection.
- Connection Status: You will receive a confirmation message once the connection is successful. If the connection fails, check the IP and port, and try again.

Step 2: Pre-Login Menu

Once connected, you will see the Pre-Login Menu with the following options:

1. Register: New users can create an account.
2. Log in: Returning users can log in to their existing account.
3. Exit: Close the application.

Step 3: Registration Process

If you are new to the application, select Register. You will be asked to provide the following information:

- Email: Enter a valid email address.
  - Note: The system will check if the email is already registered.
- Full Name: Enter your full name.
- Date of Birth: Input your birth date.
- Password: Create a password for your account.

Once your registration is complete, the server will assign you to a doctor (if available). If the registration is successful, you will proceed to the Login Menu.

Step 4: Logging In

If you are a registered user, select Log in. You will need to provide your:

- Email: Enter your registered email.
- Password: Enter your password.

If the details are correct, you will be logged in, and the Main Menu will be displayed.

Main Menu (After Login)

Once logged in, you have access to the following options:

1. View Personal Information: This will display your full name, email, date of birth, and doctor's information (if assigned).
2. View Reports: See all the reports you've created. These reports are sorted by date.
3. Create a New Report: Start the process of creating a new report.
4. Log Out: Exit the application and return to the Pre-Login Menu.

Managing Reports

Viewing Reports

- After logging in, you can choose View Reports to see a list of all reports. Each report will include:

o Report Date o Patient and Doctor

Observations o Symptoms

You can also view the full details of each report.

Creating a New Report

To create a new report, follow these steps:

1. Enter Observations: Provide your personal observations for the report.
2. Select Symptoms: Choose from a list of symptoms. You can add multiple symptoms to the report.
3. Capture Signals: You can capture physiological signals (e.g., EMG, ECG) using a connected BITalino device. These signals will be saved into a CSV file.
4. Save the Report: After finalizing the report, it will be sent to the server, and you will receive confirmation.

Signal Capture

Capturing Signals:

You can capture various types of signals using the BITalino device. The available signal types include:

- EMG (Electromyography)
- ECG (Electrocardiogram)
- EDA (Electrodermal Activity)
- ACC (Accelerometry)

To start capturing a signal: : (IMPORTANT: Write the MAC address of your BITalino before recording any signal)

1. Select the type of signal you want to capture.
2. The application will record the signal and append it to the CSV file associated with your report.
3. You can capture multiple signals, and they will be added to the file.

4. Once finished, choose Finish signal capture to end the process.

Additional Features

Patient Information:

You can always view your personal information (e.g., name, email, date of birth). If a doctor is assigned to you, his full name will also be displayed.

Logging Out:

If you wish to log out, select the Log Out option from the main menu. This will return you to the Pre-Login Menu.