Caretaker LabChart Converter Client

Instructions

The CaretakerLabChartConverter.exe application converts the CSV files that the Caretaker device generates into reformatted CSV files that LabChart can read. This process involves linearly interpolating the caretaker data to generate data points at a regular interval, rather than the irregularly sampled data the caretaker produces. By disabling the interpolation check box, this can be disabled. It is also possible to specify the target interval in the interval input box.

To see a demonstration of the code watch this video from timestamp 10:09:
https://youtu.be/0vTwHLYD9js?si=BoDnce7BSKKMmdm5&t=609

Installation (Optional)

To create a new executable file with no dependencies, use pyinstaller and access the dist directory. E.g.

```
> pip install pyinstaller
> pyinstaller labchart_converter.py
> ./dist/CSV_conversion_GUI/CSV_conversion_GUI
```

Alternatively, install Python3 or later and access CSV_conversion_GUI.py directly.
E.g.

```
> sudo apt-get install python3.8 python3-pip
> python3 CSV_conversion_GUI.py
```

Usage / Quick Start

1. After recording medical data with the Caretaker wearable device and tablet, connect the tablet to a PC via the white USB cable.
2. The tablet will appear as a USB drive. Navigate to the Caretaker folder *(Galaxy Tab A (8.0", 2019)\Tablet\CareTaker\SavedLogs)* and copy the CSV files to the desired location on the PC.
3. Run the *'CaretakerConverter_[Operating System]'* executable and select the CSV files to convert and the destination file path.