Report Generator

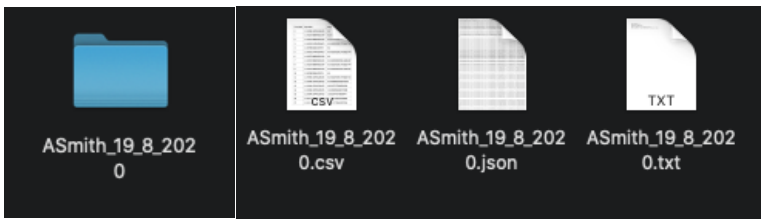
Introduction

This document outlines instructions of how to open, run and use the Report Generator.

The Report Generator has been designed as a tool to automatically format and produce a report following a training session using the MyoSensor Application. It produces a report which can be printed, saved as a PDF or with the addition of further notes saved as a json file.

Set-Up

Following a session with the MyoSensor Application a folder will be generated with the file name containing the PatientID and the current date of the session. As seen below in a mock file ASmith_19_8_2020 folder contains three files, you require the file with extension .json (ASmith_19_8_2020.json) to generate the automated report.

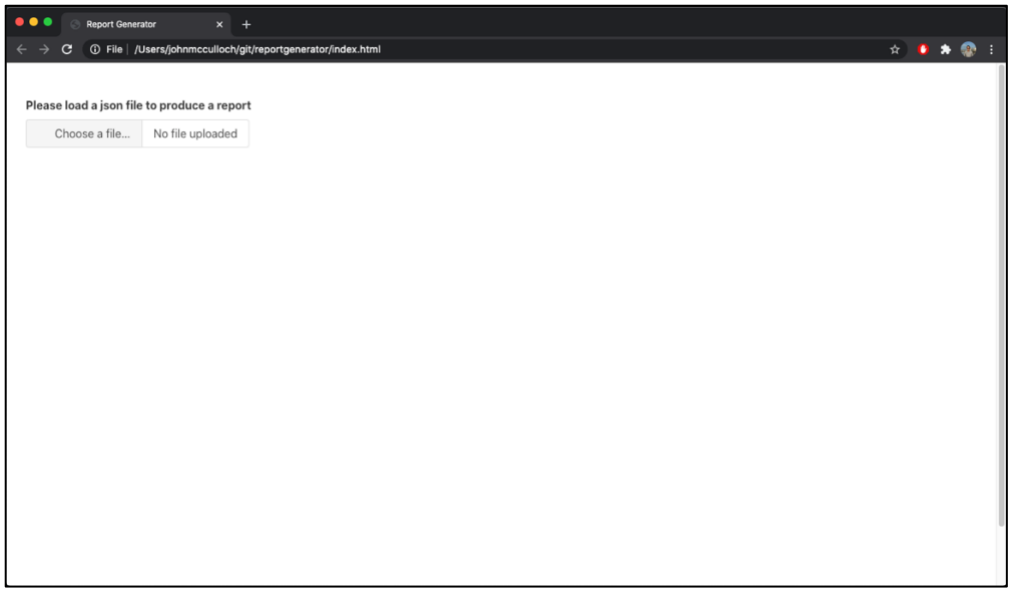


In the Report Generator folder an index.html file is located which can be opened in a modern browser to generate the automated report. Internet connection is required to generate the graphs, but patient information is not shared with any third party.

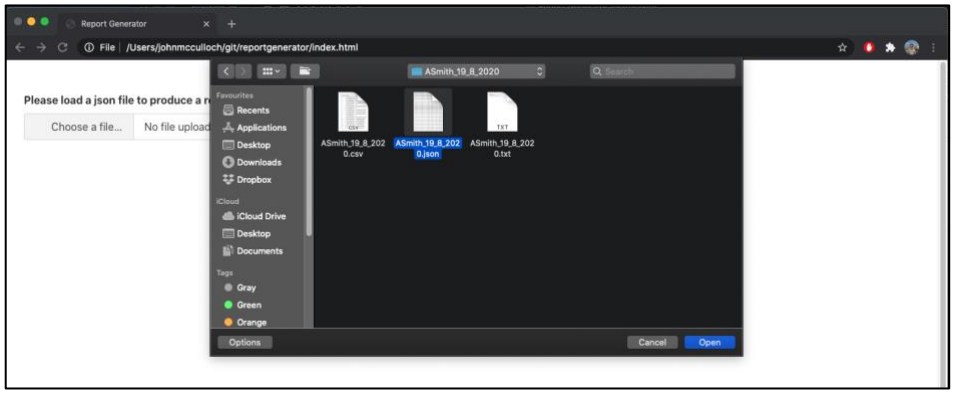
Generate A Report

Loading and opening the JSON file

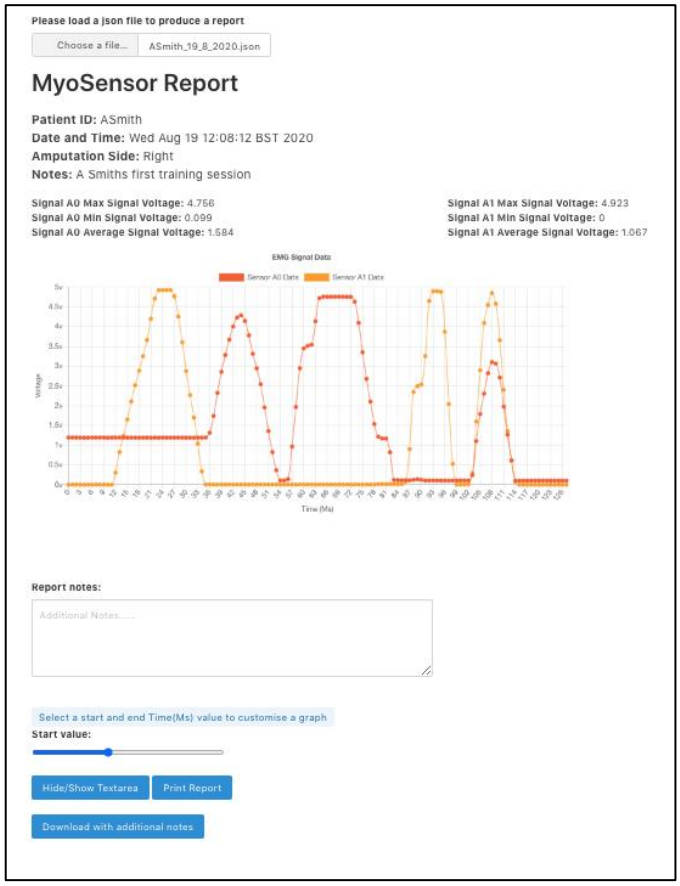
1. *Open the Index.html*



2. *Click the button Choose a file.. button select the (.json) file*



3. *The initial report will now load and generate of the data stored from the training session*



Report details and additional notes

1. *User details entered during training session will automatically be generated*
    a. *Patient ID*
    b. *Date and Time*
    c. *Amputation Side*
    d. *Notes*

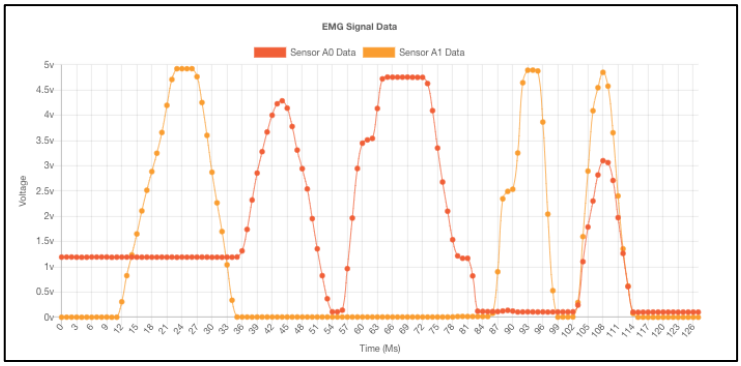
Patient ID: ASmith
Date and Time: Wed Aug 19 12:08:12 BST 2020
Amputation Side: Right
Notes: A Smiths first training session

2. *Sensor A0 and Sensor A1 data will be generated*
    a. *Max Signal Voltage*
    b. *Min Signal Voltage*
    c. *Average Signal Voltage*

Signal A0 Max Signal Voltage: 4.756
Signal A0 Min Signal Voltage: 0.099
Signal A0 Average Signal Voltage: 1.584

Signal A1 Max Signal Voltage: 4.923
Signal A1 Min Signal Voltage: 0
Signal A1 Average Signal Voltage: 1.067

3. *EMG Signal Data Graph will display all data recorded during the training session*



4. *Additional Notes may be typed into the Report notes:*
    a. *Notes written can be hidden or shown during the printing of the report / saving as PDF*
    b. *Additional notes can be added to a new (.json) file when Downloading with additional notes*

Report notes:

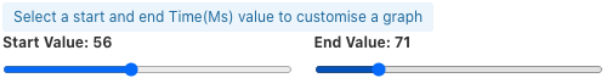
Additional Notes.....

Generating custom graph

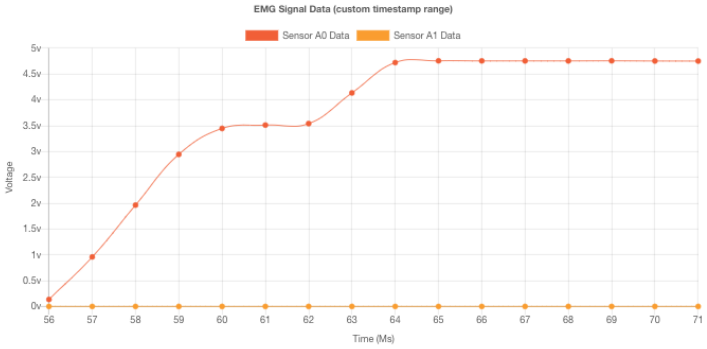
A custom graph can be created to display a range of data from a start and end Time (Ms) value.

1. *Select a Start Value using the slider*
    a. *Value range: first to last Time (Ms) recorded*
    b. *Once a value is selected this will display the End Value (Ms)*

2. *Select an End Value using the slider*
    a. *Value range: from Start Value selected to last Time (Ms) recorded*
    b. *If the start value is changed this will refresh the End Value range*

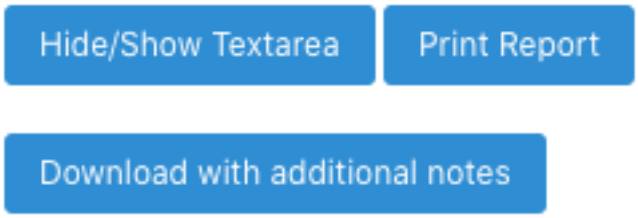


3. *This will display a dynamic custom graph with the data range populated between the Start and End Values.*
    a. *Graph will dynamically refresh and change with adjustments of Start and End Values.*



Button Controls

Three button controls provide several options



1. *Hide/Show Textarea*
    a. *Will display or hide the area to write additional Report Notes*
    b. *May be hidden if no extra notes recorded to improve appearance of Printing or PDF*
2. *Print Report*
    a. *Print Report will format the report for printing removing the controls from view*
    b. *A PDF can be created from this option also*
3. *Download with additional notes*
    a. *This will add the additional notes recorded in Report Notes to the notes and start a download of the new updated json file*
    b. *Filename is generated the same as the MyoSensor Application with PatientID followed by the current date. This does not alter the date and time of the training session record.*