Growth Meter Prototype

Application User Guide

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Connecting the measuring device

Connect the input cable from the measuring device to the USB port on your laptop.

The yellow light on the measuring device will turn on, indicating it is connected.

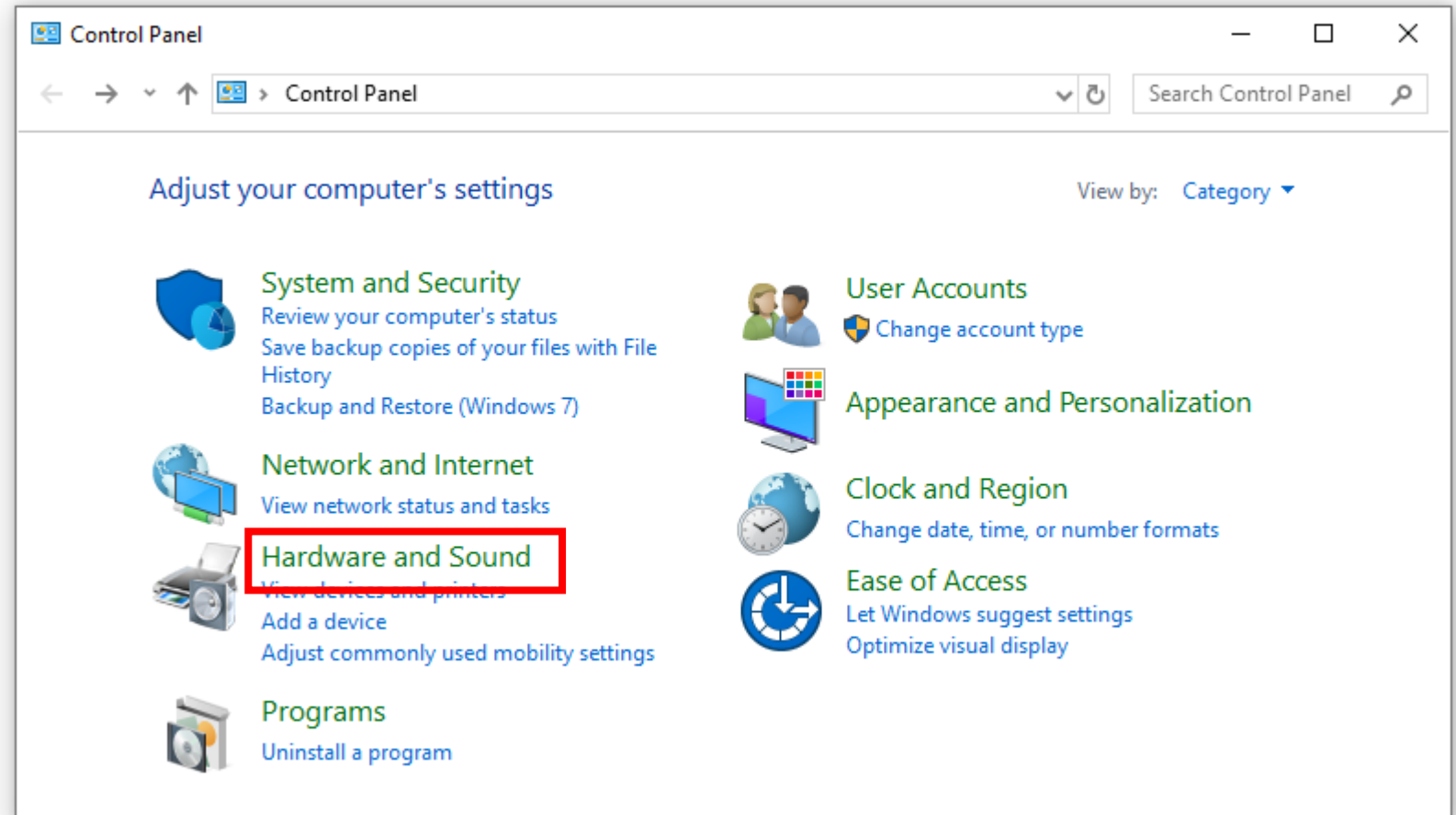# Configuring the Application

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To determine which port the measuring device is connected on, open your computer's Control Panel with these two steps:

1. Click the Windows icon in the lower left corner of the screen
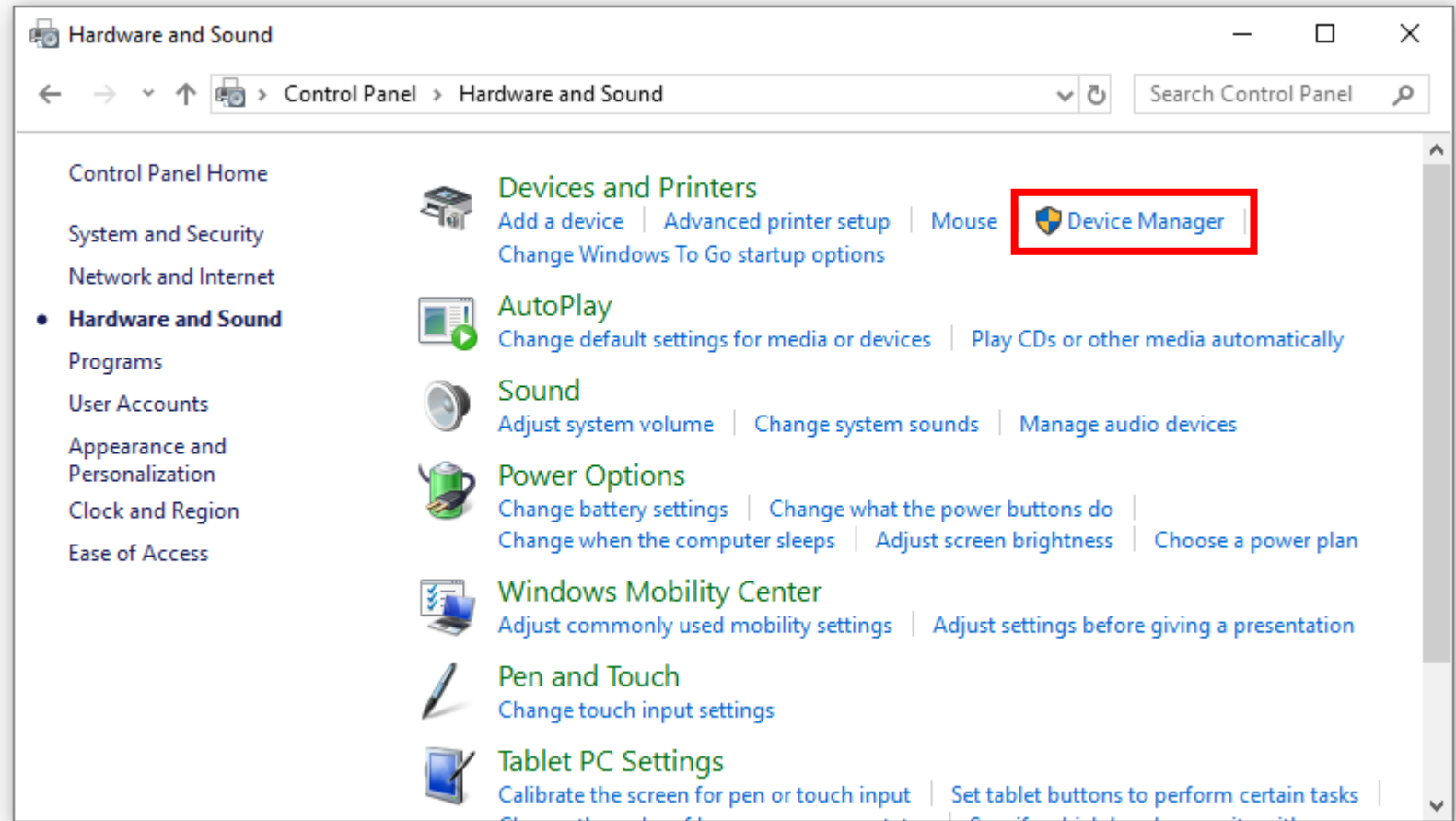
2. Type "Control Panel" in the Search bar
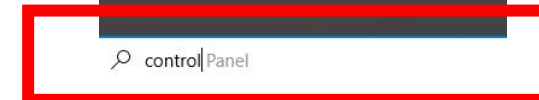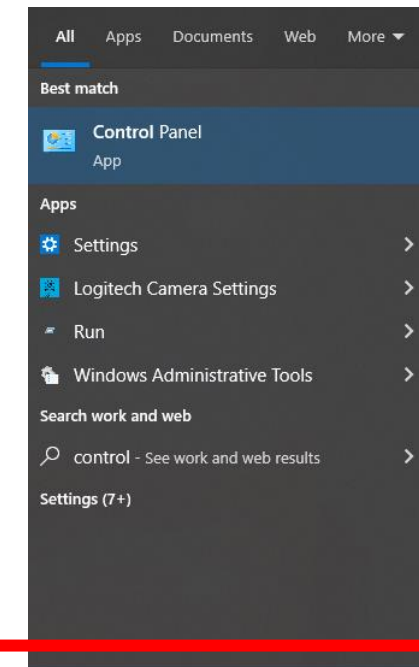
Configuring the Application

In the Control Panel, click on Hardware and Sound
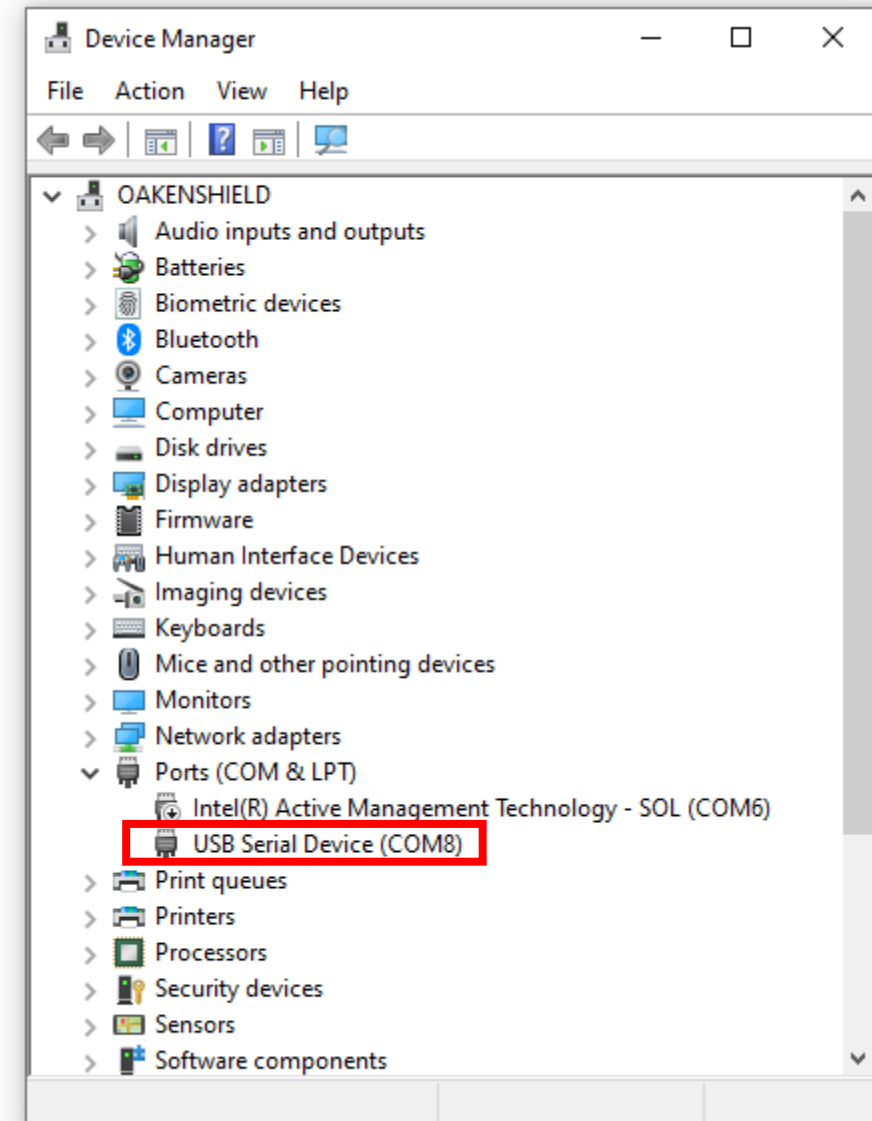
Configuring the Application

Click on Device Manager

Configuring the Application

Under the "Ports" section, note the port with "USB Serial Device" connected.
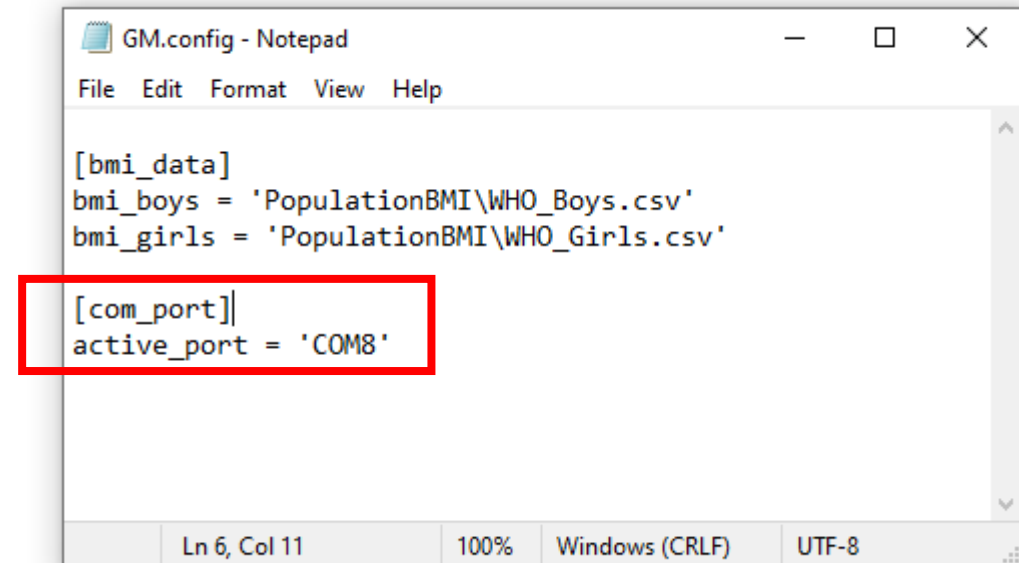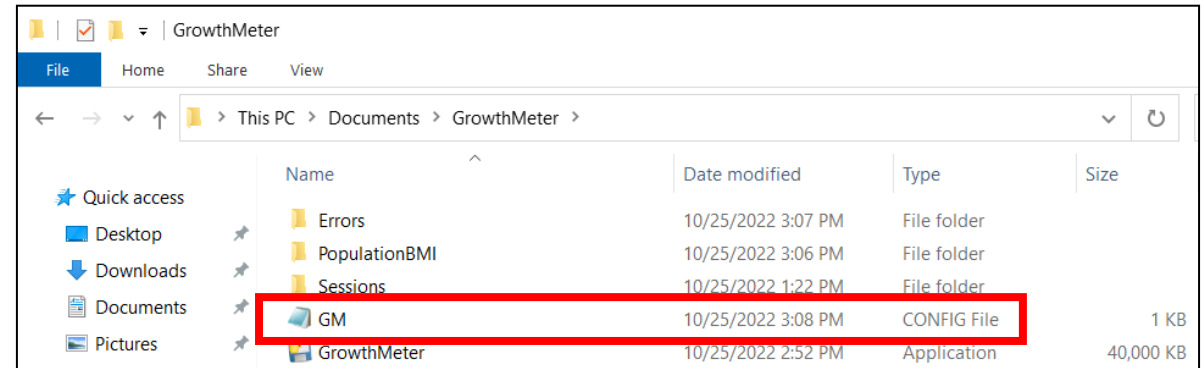
In the example to the right, the port is **COM8**.
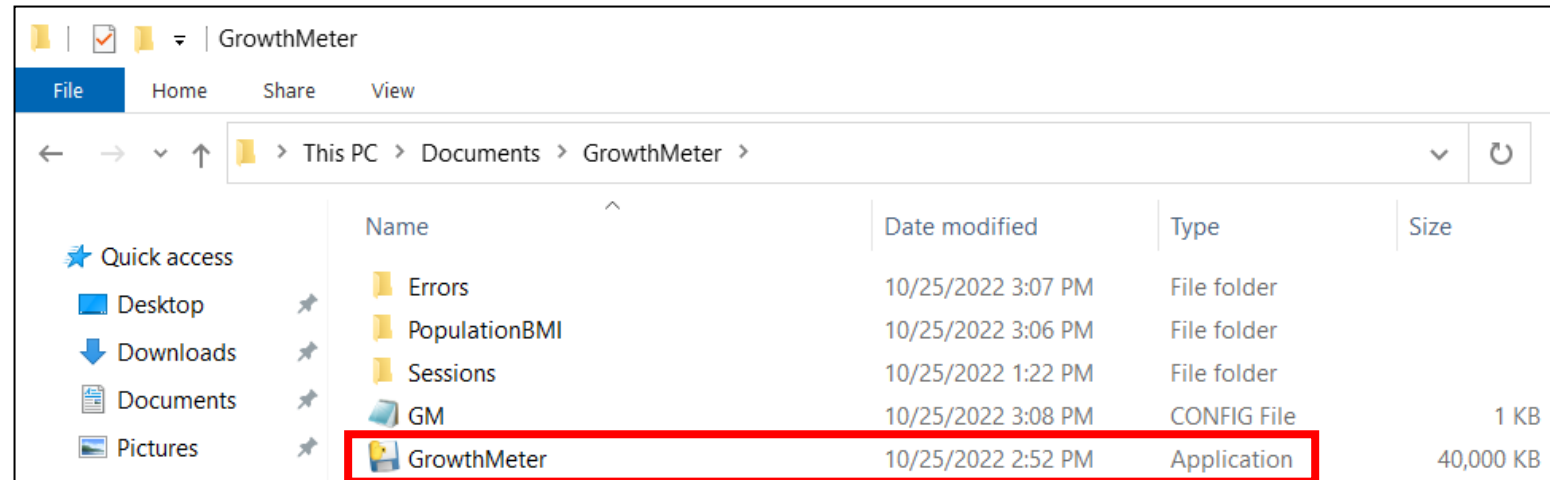
Configuring the Application

Open the "GM.config" file in Notepad and change the "active_port" setting to the port the device is connected to, in single quotes.

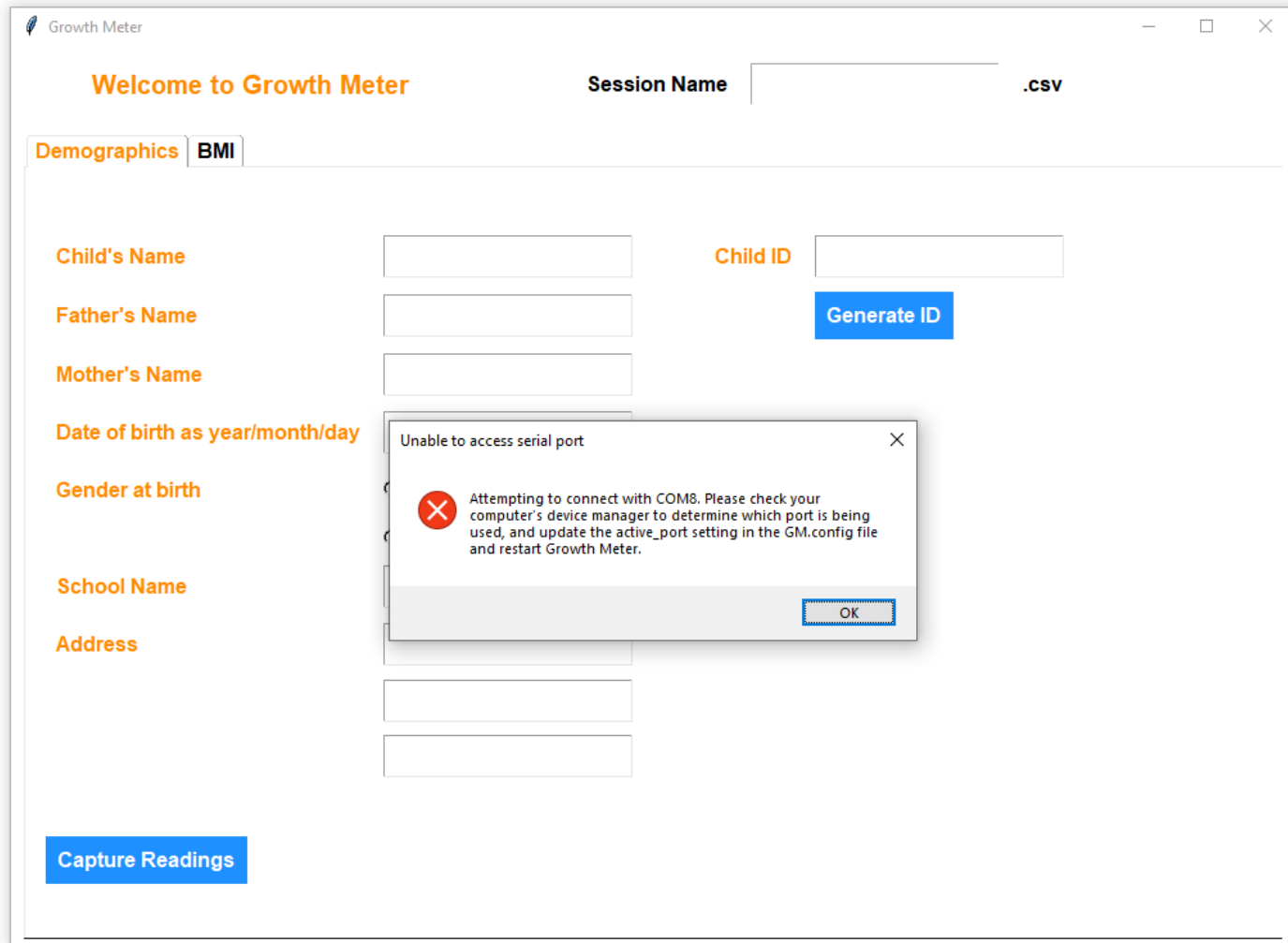In the example to the right, the active port is configured to 'COM8'.

Starting the Application

To start the application, double-click on the GrowthMeter application file.

Starting the Application

If the measuring device is not connected when the application is started, or the device is connecting on an unexpected port, you will receive this message. Connect the measuring device or see the "Configuring the Application" section.

Entering Data

The demographics tab is where data is entered on the student, and the session filename is entered.

Click "Generate ID" have the application generate an ID. Or enter a unique ID, such as a student ID.
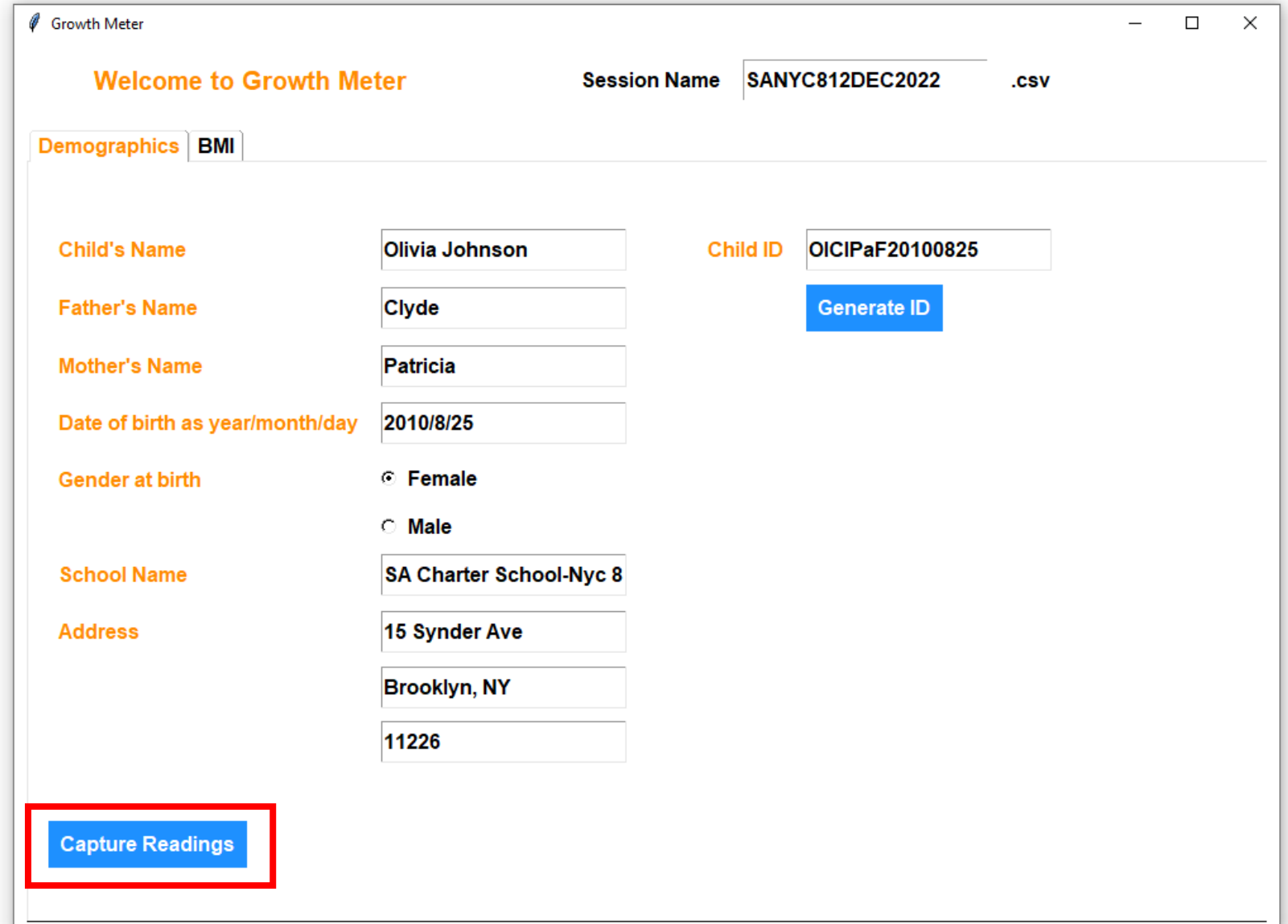
Entering Data

Here is an example of a completed Demographics tab.

Click "Capture Readings" after completing the Demographics tab to capture the weight and height from the measuring device.
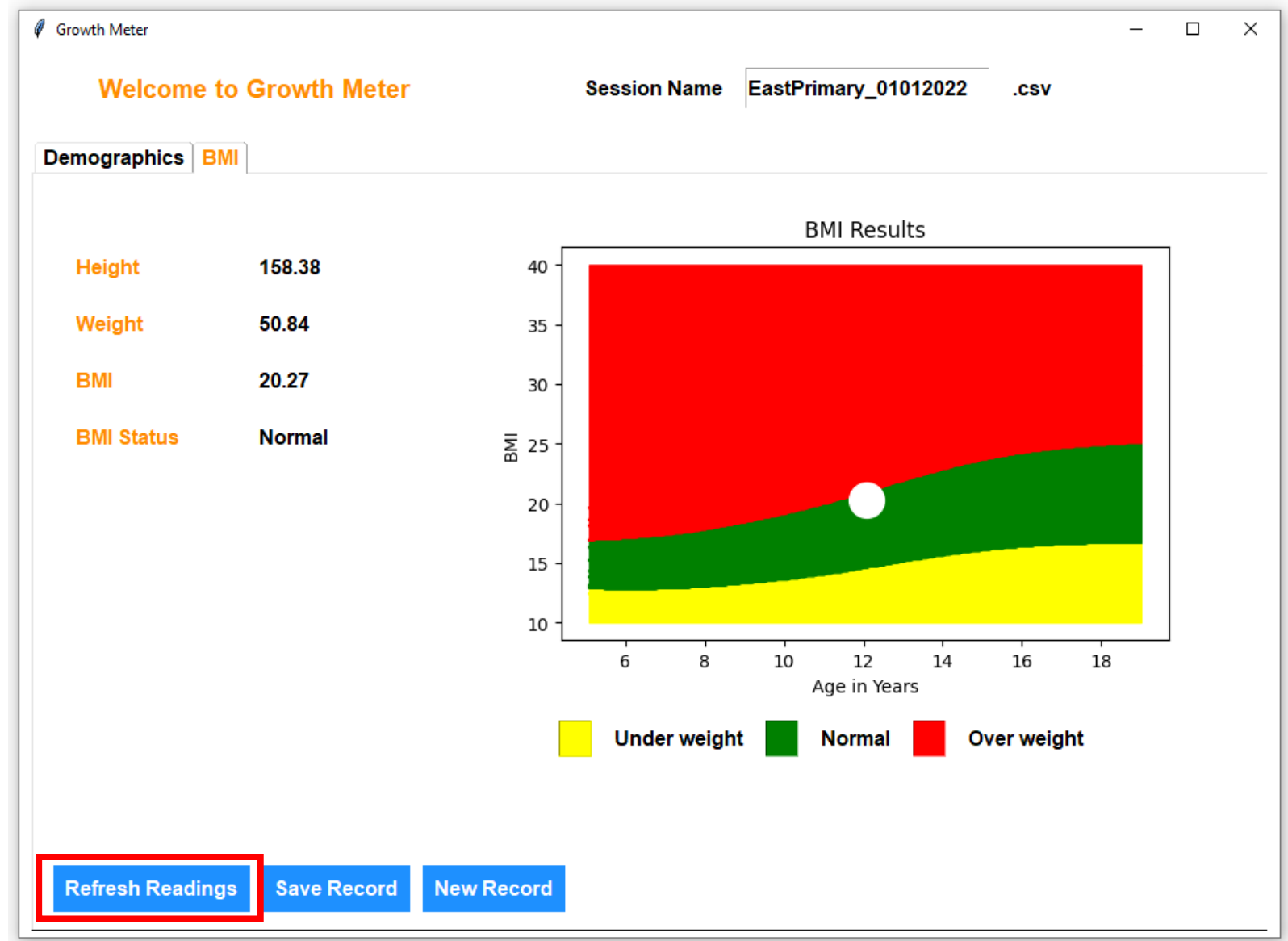
Capturing Readings

After clicking "Capture Readings", the BMI tab will be displayed, showing the results of the device readings along with the calculated BMI and status. The calculated BMI is shown on a plot of WHO population data.

Capturing Readings

Click "Refresh Readings" to obtain new readings from the measuring device.

This is usually needed until the scale settles on a consistent range.

Capturing Readings

Click "Save Record" to save the Demographics and BMI to the session file.

After the record is saved, you will be prompted to create a new record, which clears all fields and returns to the Demographics tab.
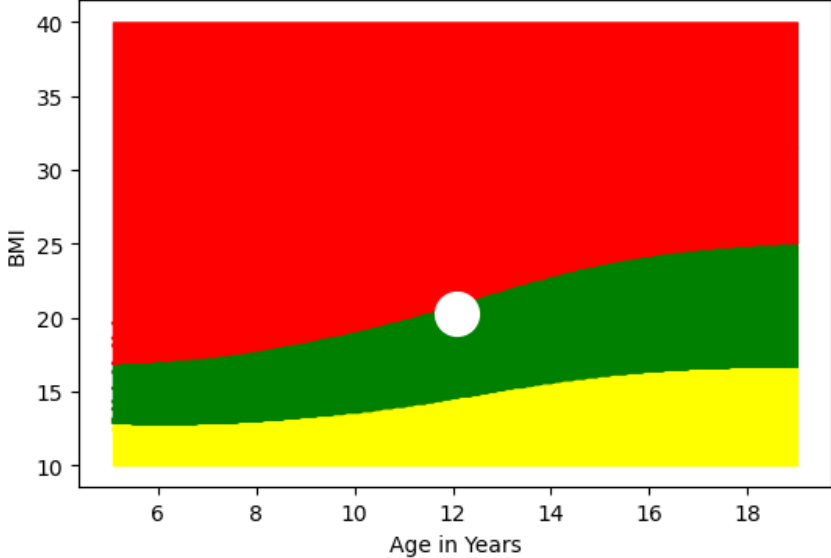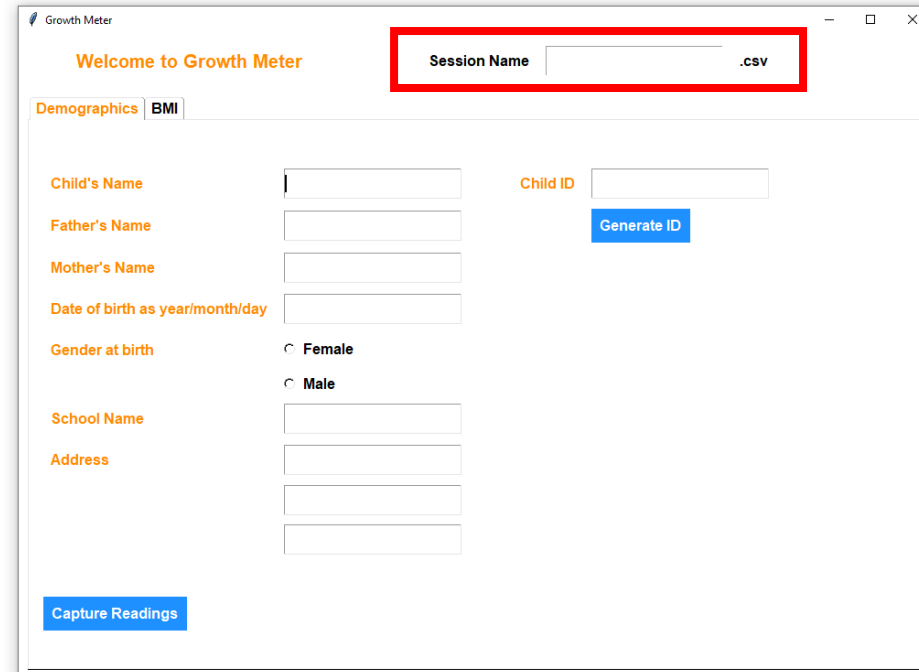
Capturing Readings

Click "New Record" to clear all fields and return to the Demographics tab.

Saving Readings

Readings are saved to the session file specified at the top of the screen.

Session files are saved in the Sessions folder.
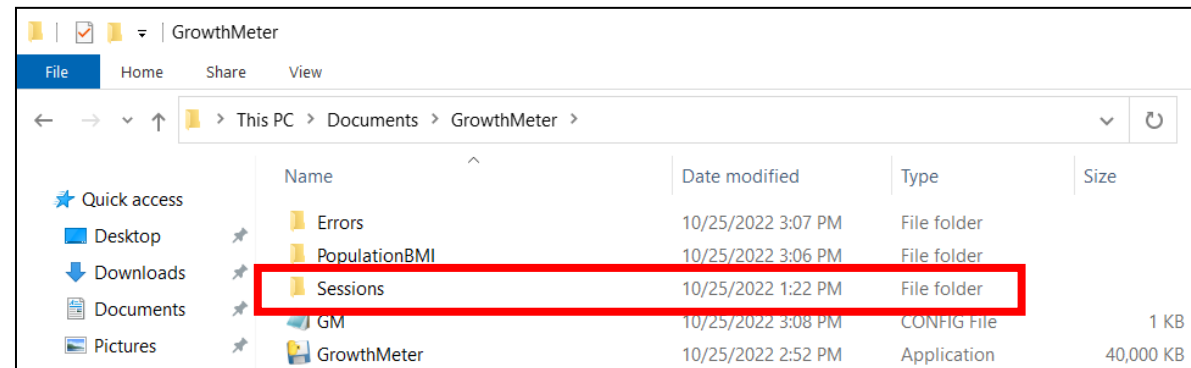
Troubleshooting

The description of any errors encountered by the system is saved in a text file in the Errors subfolder. Please check the text file for the cause of the error.