USER MANUAL

PI Automation

Pre-Installation:

Before proceeding please make sure you have the most up to date software from PowerUSB at: <http://pwrusb.com/>

Also please make sure you have Python 2.7 installed on your computer and the environmental variable set.

This Guide is for a Windows installation of the software. Currently there are issues with PowerUSB software for Linux and Mac so testing the project is best done on Windows.

Installation:

To begin installation of Pi Automation unzip the Project folder. This folder contains all of the python files needed for the project and an example database. To create a database from scratch please refer to the Django website located at: <https://www.djangoproject.com/>

Once you have unzip the files to your desired location please follow the instructions below for editing pointers to files.

Open the settings.py file provided by Django in the Client Stuff/myServer/myServer folder. Please change the location under the section labeled TEMPLATE\_DIRS to the location of your templates folder. (NOTE: This folder should still be within Client Stuff so you should only need to change the location outside of the EECS393-RasPiHome folder Example: "C:/Users/Cimara/Documents/GitHub/EECS393-RasPiHome/Client Stuff/templates")

Once you have changed this location save and exit the file.

Now open the handler.py file found in Client Stuff. Anywhere the location C:\Program Files\PowerUSB\PwrUsbCmd.exe is listed please change it to where you have installed the PowerUSB software.

Once these changes have been made please save and exit the file.

Now please open the Logger.py file found in the same directory as the handler.py. Edit the line reading: location = 'C:\\Users\\Cimara\\Documents\\GitHub\\EECS393-RasPiHome\\Client Stuff\\test.txt' to the correct location of your Client Stuff folder

Now save and exit the file.

All locations have now been updated and the project is ready to be launched.

Launching the Servers

To launch the Web Client Server please open up a Command Prompt by typing “cmd” in the Windows run bar under the start menu. In the Command Prompt please type the following:

Python (Location)\manage.py runserver  
  
Location should be the location you have the manage.py file found in the Client Stuff\myServer folder of the project.

This will now launch he Django based Web Server. To access the website please use localhost:8000/piServer. The login provided is currently:

Username – admin

Password – admin

Once logged in you can manipulate the database.

Now to launch the Handler Server, open another Command Prompt by following the instructions above. Once open insert the command:

Python (Location)\runner.py

Location in this case is where the runner.py currently is installed it should be found in the Client Stuff folder of the project.

Now the Handler should be checking the database for changes. As long as your PowerUSB strip is connected and functional this it is ready to be manipulated using the user page. Just login in through your preferred browser at localhost:8000/piServer and you are ready to go. ENJOY!