Deployment Documentation

Makerspace ID Scanner

This guide assumes you are installing the project on a raspberry pi with a fresh install of the OS on it. If you are not starting from scratch, skip over any steps that are already completed. In order to prepare the raspberry pi to run the software, there are a few steps that need to be taken to prepare the environment. Firstly, create and navigate to a new directory that will serve as the root directory of the project. Then download/clone the project from the repository by running the following command:

```
git clone https://github.com/jeannamatthews-classes/group-project-id-scanner
```

Next, navigate to this new directory and run the “venv” command to create a new virtual environment for python. Once it completes, run the following command:

```
source ./env/bin/activate
```

This should activate the python virtual environment and add a small (env) to your terminal prompt if successful. The next step is to install the required python packages as outlined in the requirements.txt file using pip by running the following command:

```
pip install {package_name}
```

This should conclude the setup process. For usage instructions, please refer to the user documentation.

User Configuration

Now that the system is ready to run the project using the default configuration, you may configure certain aspects of the project to your liking.

Network Configuration

The default hostname and port of the web server can be changed by modifying their values in the final line of app.py. Debug mode can also be enabled or disabled here. An HTTP port such as 8000 or 8080 is recommended if your network allows it, but any secure TCP port should work.

CSV Import and Export

The csv import and export features use the src directory by default, but a new default location can be specified by changing the DEFAULT_LOCATION variable at the top of their files respectively. An alternate directory can also be specified as an argument when running either file.