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https://github.com/ttrace1995/RaspberryPiCloudGrow

n/a

App.java -
Includes the main method for entire project, handles startup functions as well as the entry point for all incoming messages received from the cloud. Includes callback functions to validate messages have been sent and received.

AutomatedGrow.java -
N/A

CommandExecutor.java -
Used to execute any commands that need to interface with the raspberry pi hardware. Uses the python package to call certain python scripts used for modifying the states of the GPIO pins. Also includes the function used to access the raspberry pi camera.

Configuration.java -
Used to read the previous states of the components form a saved json file and load those states back on startup.

Constants.java -
Includes global constants like connection strings to be used throughout the project.

DataScheduler.java -
Starts a timer that executes a read and set telemetry data (temperature and humidity data) function to the cloud every 30 seconds.

Utilities.java -
Helper class that includes various functions used for parsing and packaging data into usable forms.

Python Folder -
Contains multiple similar python scripts to alter the states of the GPIO pins on the raspberry pi.

Configuration Folder -
Contains a data file to record the current states of each component connected to the raspberry pi.