IoT Server

The system is a local network IoT device server, various devices will connect through a central hosting device (Raspberry Pi). The goal is to create an easy, intuitive interface that is compatible across as many devices as possible. Containers will be investigated as a means of increasing performance of the system.

The Pi will provide methods for controlling, querying and interacting with devices. Input can be obtained from the devices, Web API’s or from an analytical function in the system. Output can be sent to devices, Web API’s, and a UI/GUI.

The server must communicate via wifi with connected devices, the devices can be setup to the server via direct usb connection.

A web interface will also be hosted from the Pi and allow users to access server control options from a local web address.