| Room 1 | |
| --- | --- |
| Temp S | |
| Python (Si | |
| Publi | |
| building/ro | |
| temperatu | |

| Room 2 | |
| --- | --- |
| Temp S | |
| Python (Si | |
| Publi | |
| building/ro | |
| temperatu | |

| Room 3 | |
| --- | --- |
| Temp S | |
| Python (Si | |
| Publi | |
| building/ro | |
| temperatu | |

| Room 4 | |
| --- | --- |
| Temp Ser | |
| Python (Sim | |
| Publish | |
| building/roor | |
| temperature | |

| Room 5 | |
| --- | --- |
| Temp Ser | |
| Python (Sim | |
| Publish | |
| building/roor | |
| temperature | |

Sensor 1
(imulation)

isher:

oom1/
ire

«HVAC Actuator 1»
building/room1/
temperature

Temperature:
15 - 35 C

On/Off

Sensor 2
(imulation)

isher:

oom2/
ire

«HVAC Actuator 2»
building/room2/
temperature

Temperature:
15 - 35 C

On/Off

Sensor 3
(imulation)

isher:

oom3/
ire

«HVAC Actuator 3»
building/room3/
temperature

Temperature:
15 - 35 C

On/Off

Response
for action

Sesor
data

**Mosquitto Mqtt Broker**

Fowards Commands to HVAC

Subscibe
to rooms

Publish to
hvac
(ON/OFF)

**Legacy HVAC**

+ GET API
+ POST API

nsor 4
nulation)

ner:

m4/

«HVAC Actuator 4»
building/room4/
temperature

Temperature:
15 - 35 C

On/Off

**Middleware (Python)**

+ Decision Logic
+ Action Logging
+ Auth and Validation

api hvac
command

Temperature:
15 - 35 C

nsor 5
nulation)

ner:

m5/

«HVAC Actuator 5»
building/room5/
temperature

On/Off