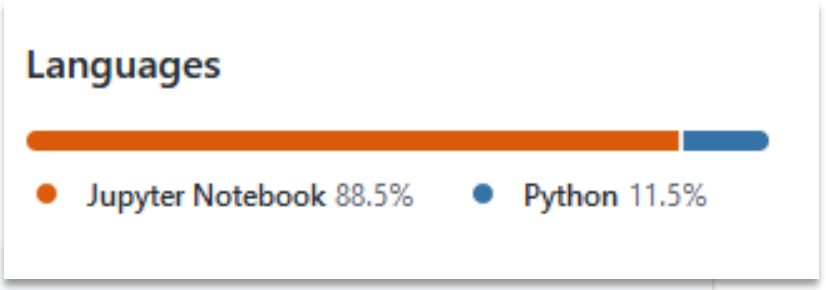
Industrial Smart Metering

An IoT solution for Smart Metering

Project’s Git



gibait / industrial-metering-iot Private

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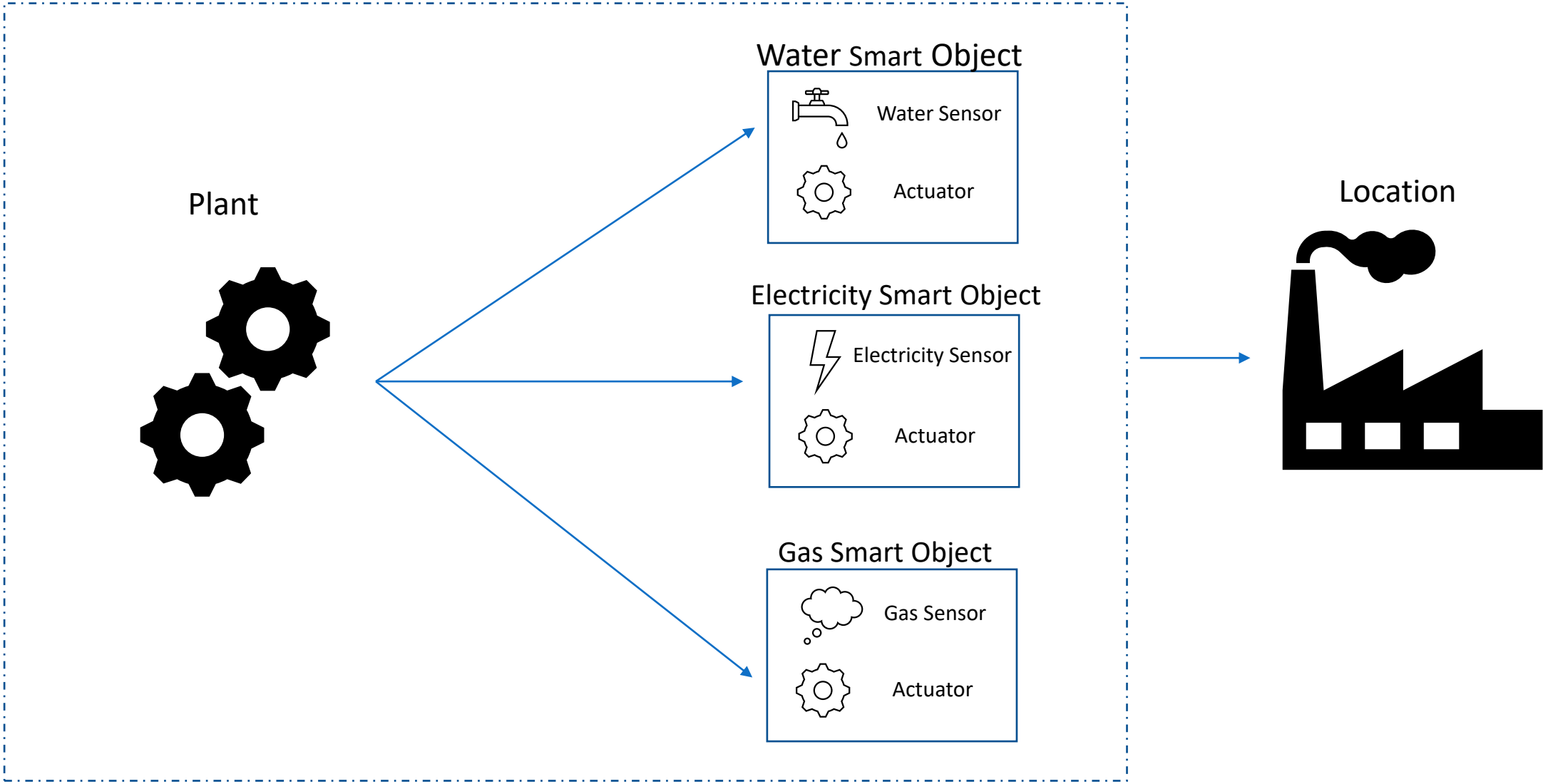
master 1 branch 0 tags Go to file Add file Code

gibait Update README.md e0b5646 5 days ago 54 commits

.idea	changed sdk	16 days ago
analysis	consumption & costs analysis notebook	6 days ago
data	data dump	6 days ago
mqtt	added location & plant support and stop method	6 days ago
README.md	Update README.md	5 days ago

https://github.com/gibait/industrial-metering-iot

Smart Metering Scenario



Devices' Hardware

Water Smart Object

Electricity Smart Object

Gas Smart Object

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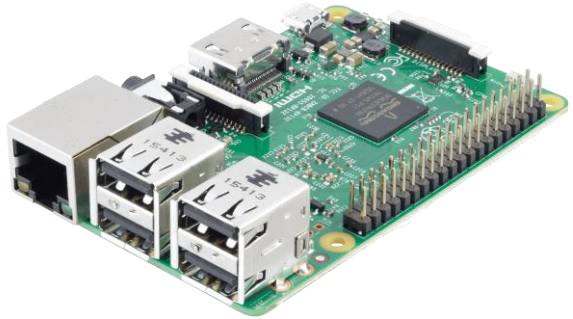


Plant Broker

Architecture

Resources Model

water_sensor

attribute	type
id	uuid
resource_type	string
water_level	int
is_active	boolean
timestamp	long

gas_sensor

attribute	type
id	uuid
resource_type	string
gas_level	int
is_active	boolean
timestamp	long

electricity_sensor

attribute	type
id	uuid
resource_type	string
electricity_level	int
is_active	boolean
timestamp	long

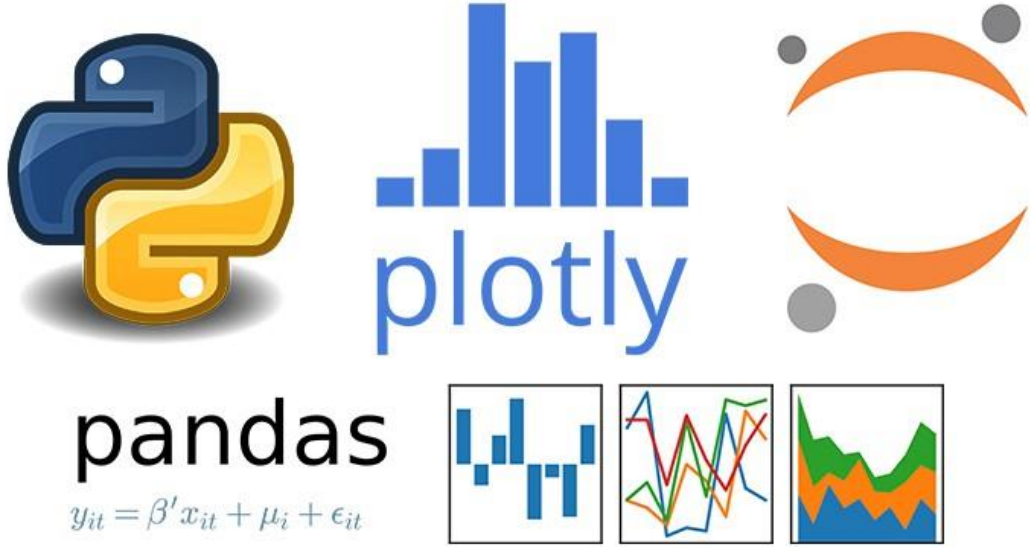
actuator

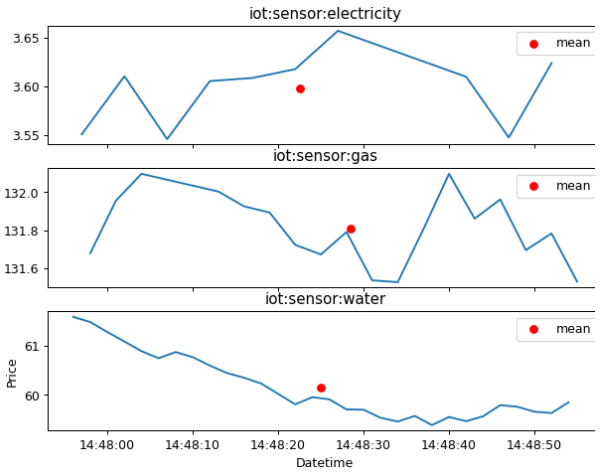
attribute	type
id	uuid
resource_type	string
value	boolean

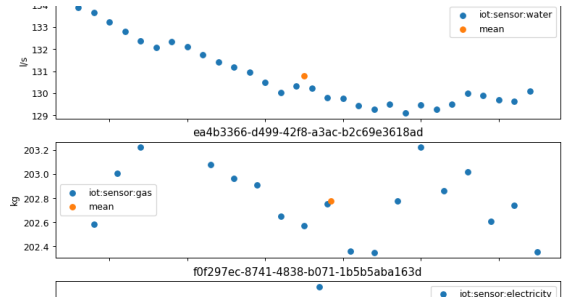
device

attribute	type
device_id	uuid
type	string
location	string
plant	string
manufacturer	string

Data Visualization







Thanks

Giulio Barabino