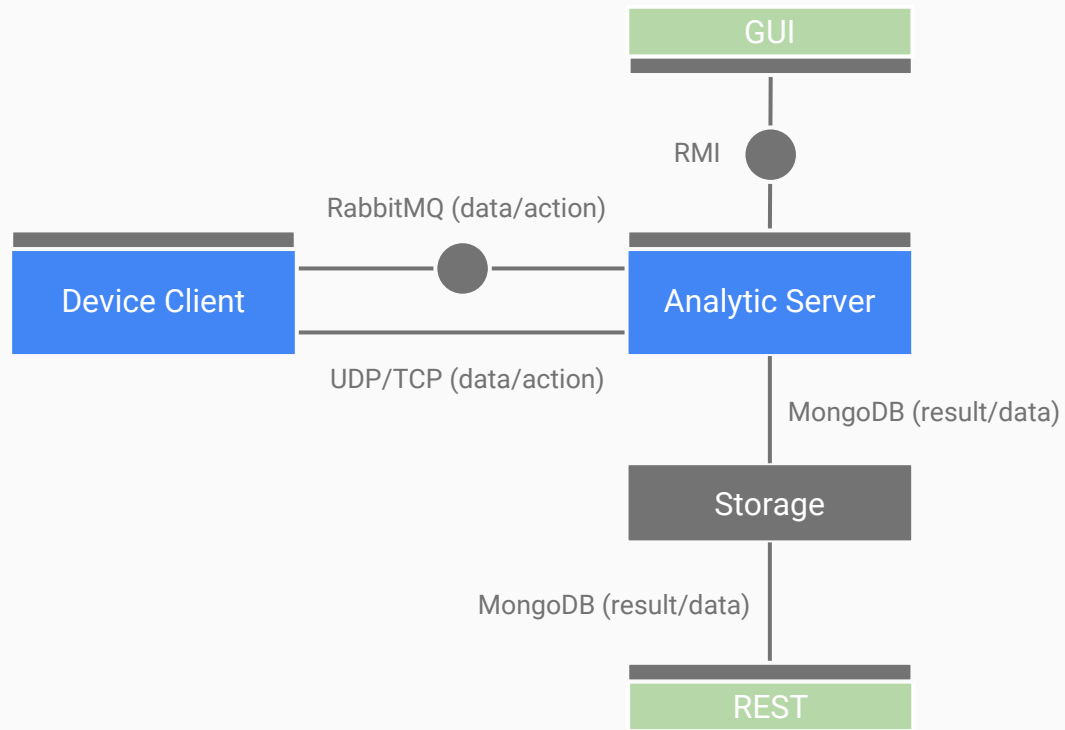


Smart Service Center

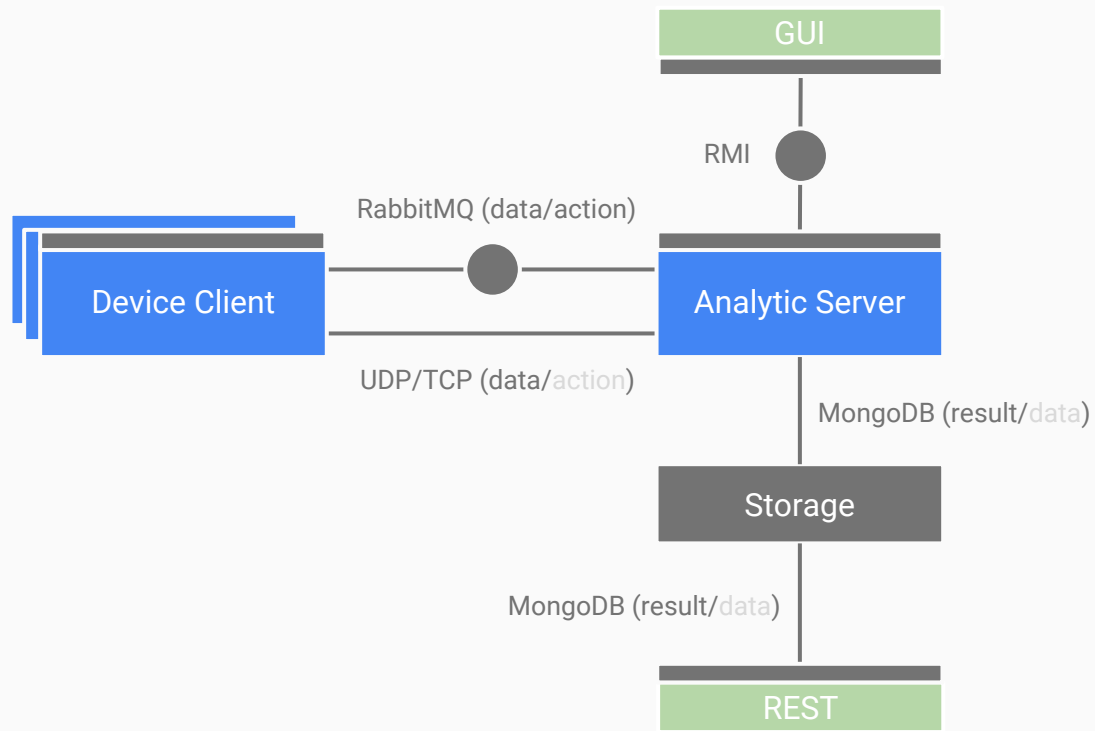
A Service of Meta Application



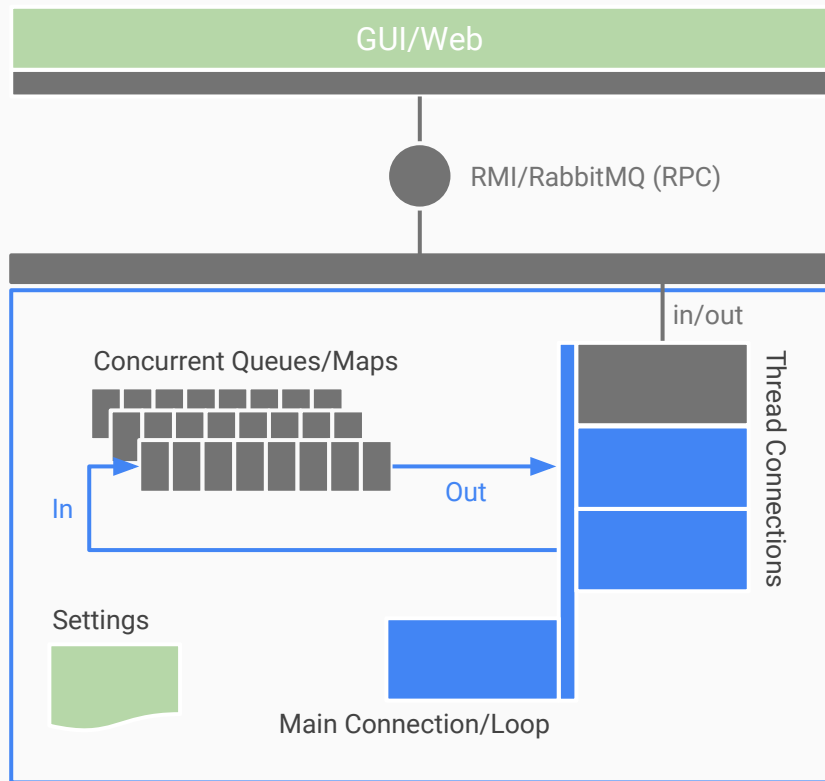
Goal



Currently

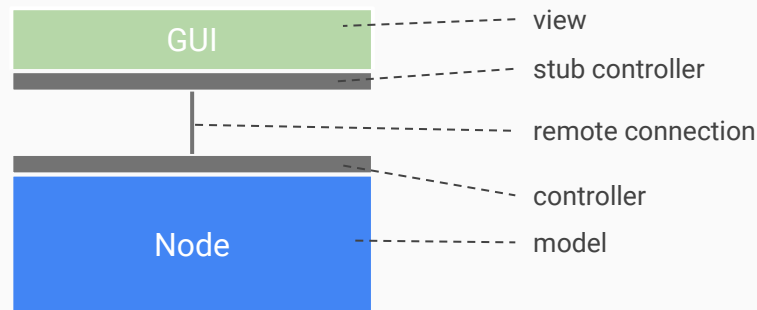


Inside The Nodes

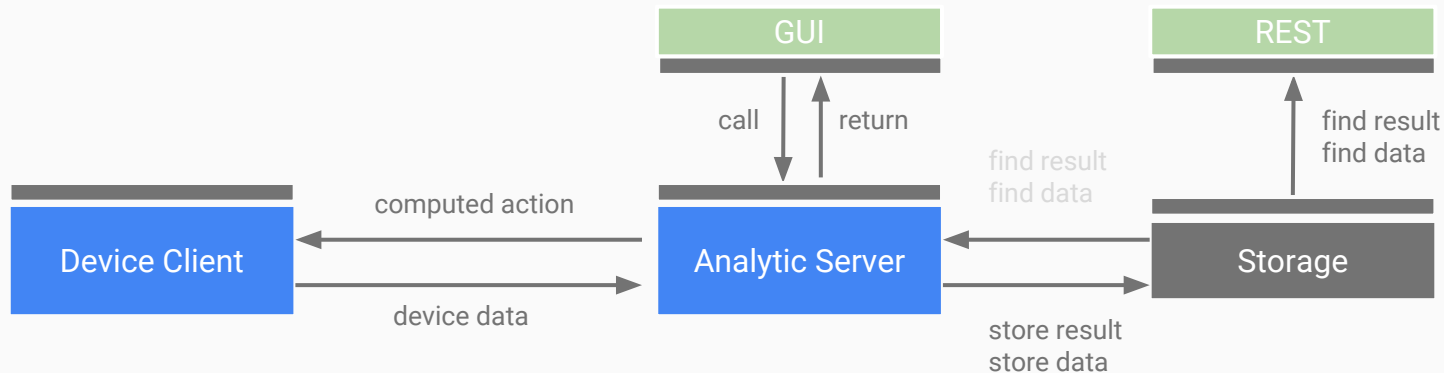


All Concurrent Queues and Maps are Serializable

View is strictly separated from the model and controller.



Main Idea



```
action { device_id, action_id, parameters }
```

```
result { device_id, timestamp, interval, actions, weight, flag }
```

```
data#sensor { sensor_id, timestamp, interval, signal, flag }
```

```
data#machine { machine_id, timestamp, interval, activity, handled, unhandled, flag }
```

REST Implementation

Data can be accessed through a REST API implemented using nodeJS with express and mongoDB driver.

Current urls/routes are available.

% weight, interval

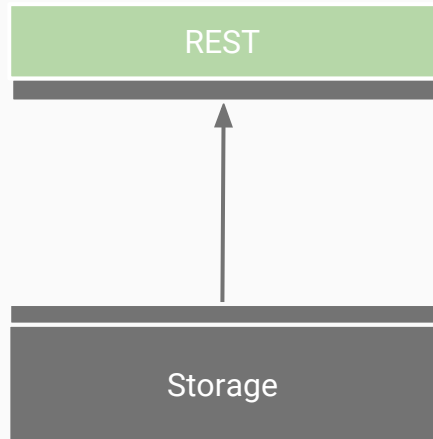
<query> : <attribute> | <time_range> | <%_range> | <query>&<query>

<%_range> : &%_min=<value> | &%_max=<value>

<time_range> : &from=<time> | &to=<time>

domain/results

domain/results?<query>



Used Technologies

RabbitMQ/TCP/UDP (Publish/Subscribe) data exchange

RabbitMQ (routing) action command

MongoDB (database/connector) store/find results

NodeJS (service) REST implementation

RMI (GUI) a stub implementation

Some Remaining Problems

Security/Compression/Privacy/Load Attacks

Byzantine Generals Problem (partly solved using action weights)

Server Configuration/Start/Stop/Restart/Setup

Monitoring Truth

Device Registration

RabbitMQ and MongoDB Configuration

...

A photograph of a Raspberry Pi 3B+ computer, a small brown stuffed animal with a striped hat, and a black power adapter with a coiled cable. The items are arranged on a light-colored surface. The text "Any Questions" is overlaid in white on the left side of the image.

Any Questions