Get client

Task
1) make Get request
2) display and update clock

every 5 seconds

Get

Aggregation Server

Request Handler
1) Analyze rq
2) decide action then call HistoryFile Handler
3) return response

put rq
response

History File Handler
- update request
- Get weather request
- cleaning Task
- clock increment

Scheduler
call HistoryFileHandler: cleanData
every 5 s

Agg Server

Task
1) clock increment
2) send PUT request
3) update clock

every 5 seconds

read

weather data

HistoryFileHandler

1) update request => 1) if HistoryFile not exist
=> create and then insert
else
=> just insert
2) increase clock counter

2) Get weather request => if id == "all"
=> read HistoryFile and return
else
=> find latest update data of that id
then return

3) cleaning Task => - only keep up to 20 records
- delete data whose id not update recent 30 seconds
- increase clock counter