

BACKTEST SIMULATIE LIFE CYCLE



1. WebApp

script: `initiate_simulation` [JSP]

SQL create record: name, description, owner, status (running), strategy
id & timestampStart automatic

2. Process launcher

script: `launch_new_task` [bash]

arguments: `methodName`, `methodArguments`, `simulationId`, `startDate`, `endDate`

- python method script starten, met `methodArguments`
- raw output wegschrijven naar file
- SQL (`add_pid_to_simulation.py`) PID toevoegen

3. Process watcher

script: `watch_process` [bash]

arguments: `PID`, `simulationId`

- track .raw output file
- if 'OAK_PROGRESS' is detected, call `update_simulation_progress.py`
- if 'And Now His Watch is Ended' is detected, call `finish_simulation.py`
- if process is killed without final sentence, also call `finish_simulation.py`

4. Simulation finaliser

script: `finish_simulation` [Python]

arguments: `simulationId`, `status`, `gain`, `return`

- SQL update `timestampEnd`
- SQL update status if not already stopped!
- SQL calculate return & gain

5. Process killer

script: `TODO` [JSP]

arguments: `simulationId`

- SQL update timestampEnd, status, totalGain, totalReturn
- kill PID (en niet omgekeerd, want status moet in db zeker eerst stopped zijn, anders race met watch_process bash)

Remarks

No clean output file → database instead

Simulation python output to console (baerto)

- laatste regel = gain
- voorlaatste regel = return