

Distributed Sorting

DEVAUCHELLE Alex
49004567

RENAUD Thomas
49004578

Logistics

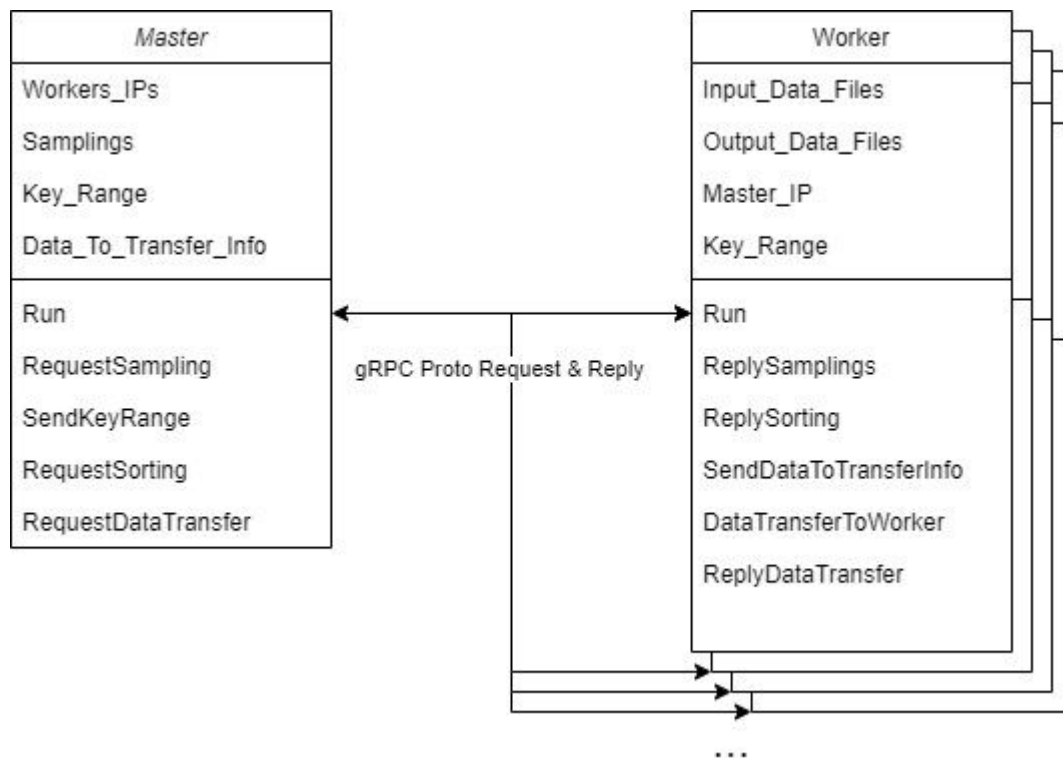
Physical meetings twice a week

- Goal of the week
- Parallel working (specific tasks)
- Progress evaluation
- Brainstorming

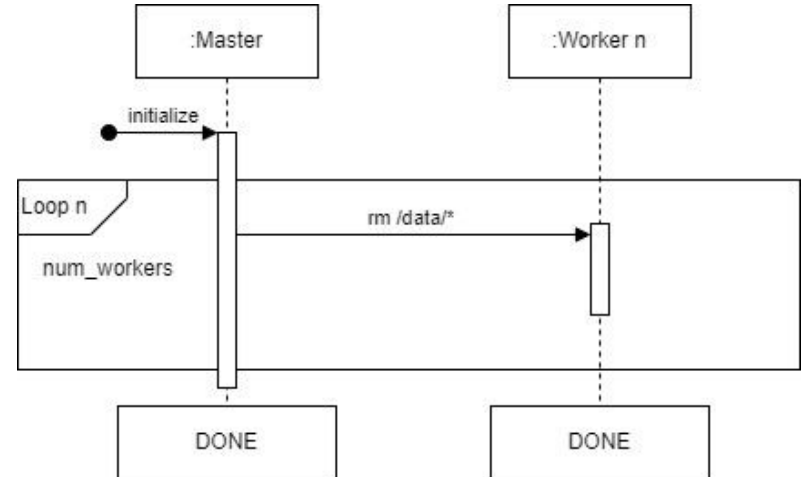
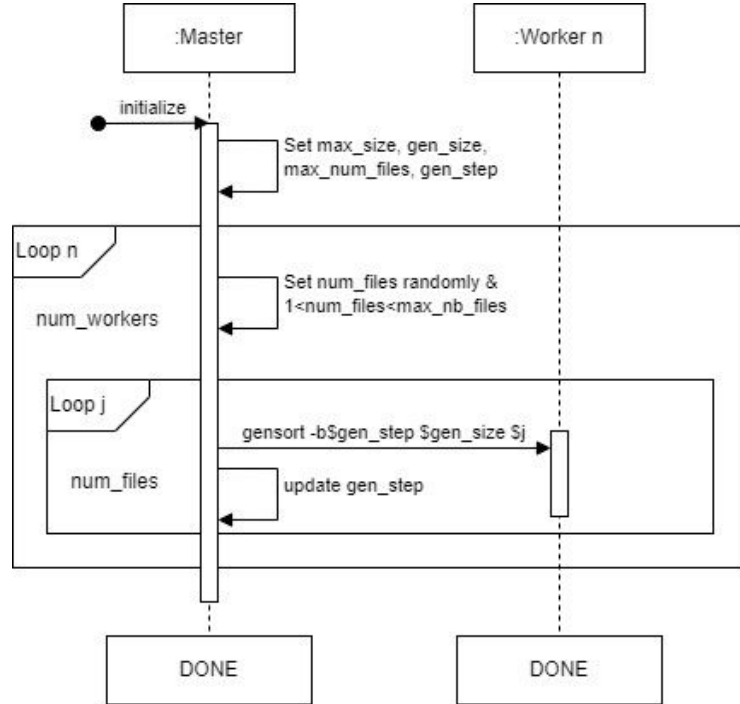
Milestones

- Milestone #1 (**Design**):
 - Design Solution
 - Formation gRPC library
 - Generate input data
- Milestone #2 (**Coding**):
 - Scala class of Master & Worker using gRPC library
 - Sampling procedure
 - Sorting
- Milestone #3 (**Transfert Protocol**):
 - Partitioning
 - Shuffling
 - Merge
- Milestone #4 (**Improvement**):
 - Paralleling sorting inside each worker

Overall Design



Sequence Diagram - Data Management



Details

- Communication library : gRPC
- Programming environment : Scala & Bash
- Logging : Further investigation needed
- Input datasets Generation is DONE (Bash script)