

Progress Presentation

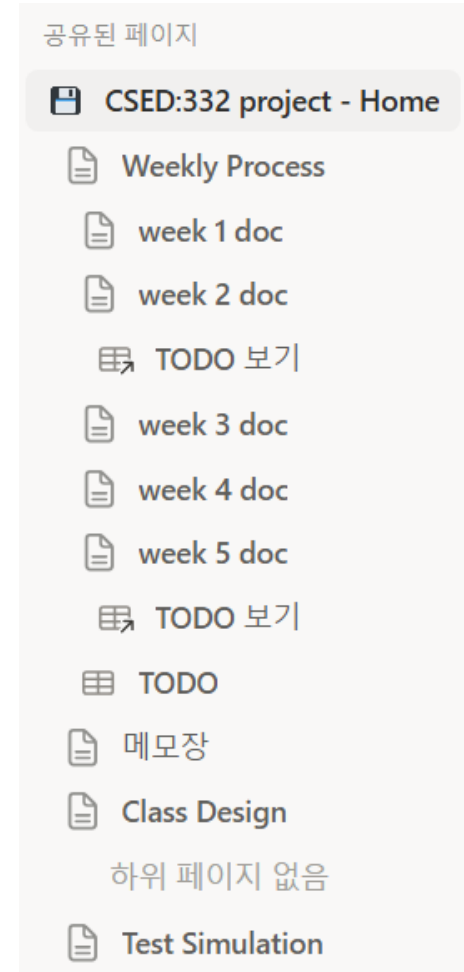
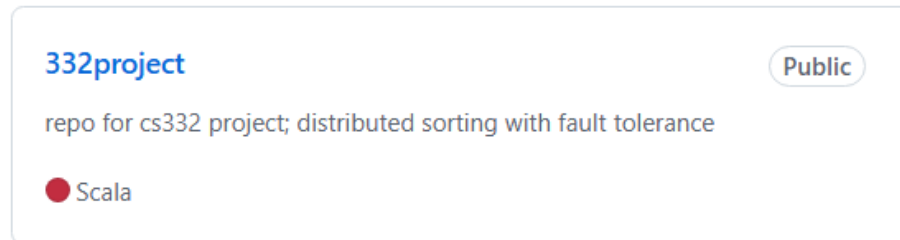
20240171 장홍준

20240576 송승윤

20240894 조현준

Week #1 : Build Setting & Convention Rule

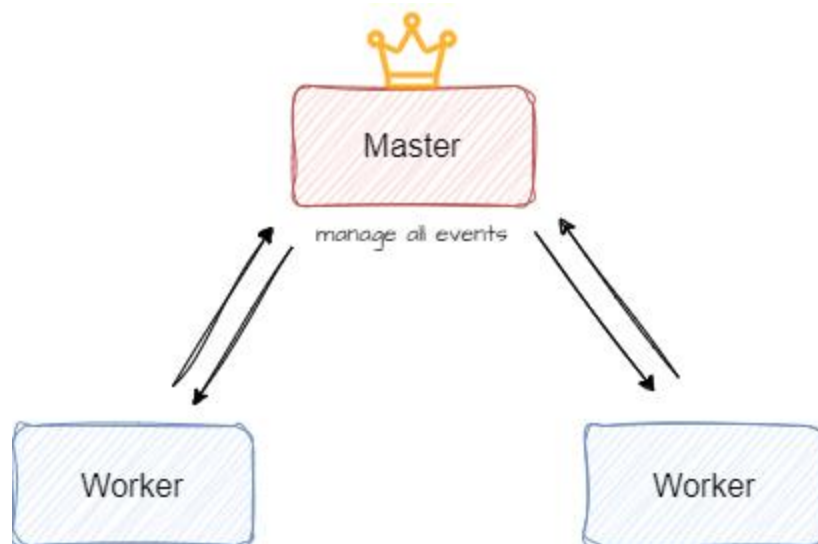
- Generate Scala project
 - Scala 2.13.12
 - sbt 1.11.7
 - upload github
- Generate notion page
- Set convention



Week #2 : Basic Design

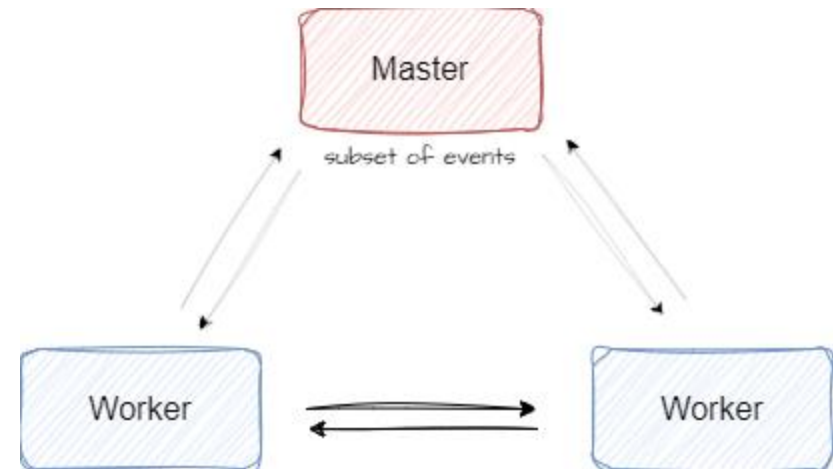
- gRPC API
- How to shuffle?

worker-master-worker model

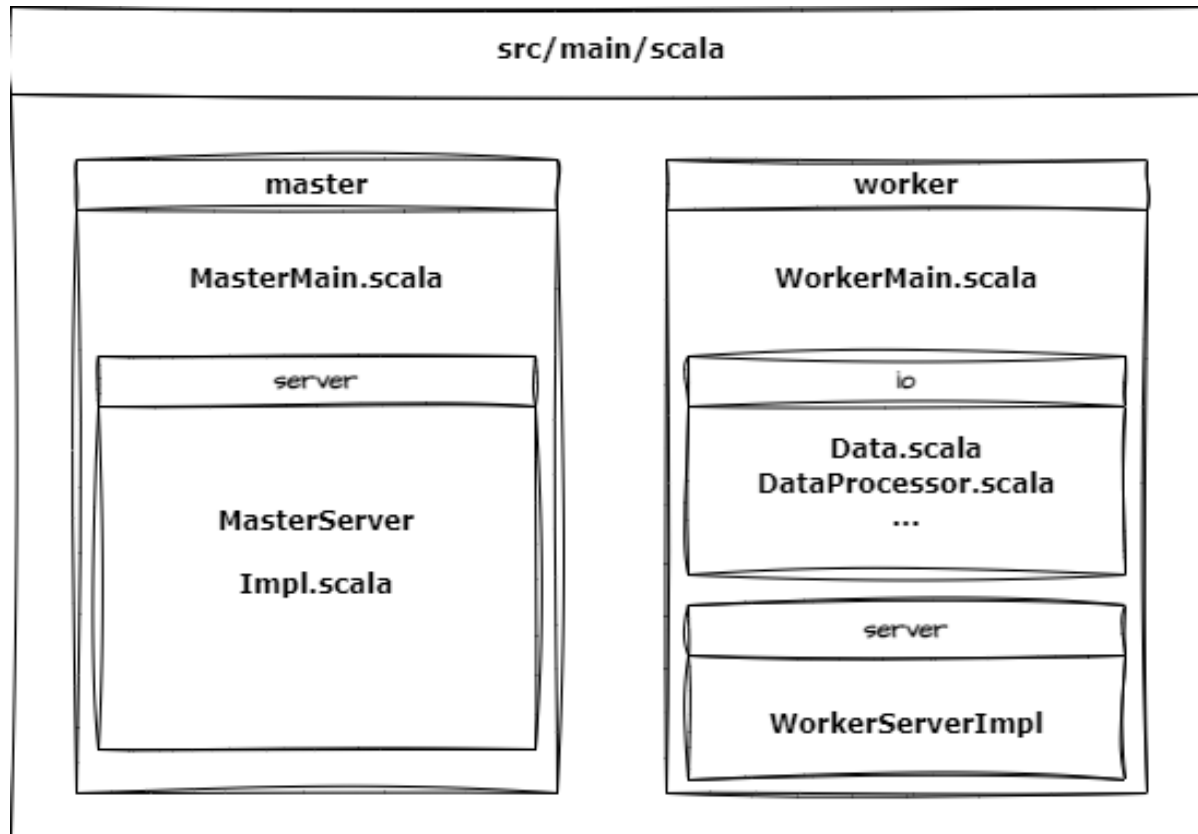


vs

worker-to-worker model



Week #3 : Detailed Design & Class Design



Week #4 : Implement codes & Share Issues

Worker

- gensort outputs bytes, so difficult to convert to String
- Need to decide byte comparison method for sorting.

Master Server

- Implemented register
- Consider Lock.synchronizd section
- Update TrieMap → mutable.Map

Common

- Discussed test strategies during development
- Manage develop branch with PR
- Commit main branch without PR
- Notion subscription issue

Week #5 : Preparing Presentation

- Prepare Presentation
- Share some concurrent Issues about Master Server
- Fix Bugs

Future tasks

- Finish code implementation
 - Design test situations
-
- ~Week #6 : code implement done & component test finish
 - ~Week #7 : test on VM w/ concurrent Issues, memory safe...
-
- **We are creating and sharing simulation situations that illustrate the above issues on Notion pages.

Meeting Time

- (11/09) 12:30 - (11/09) 14:00

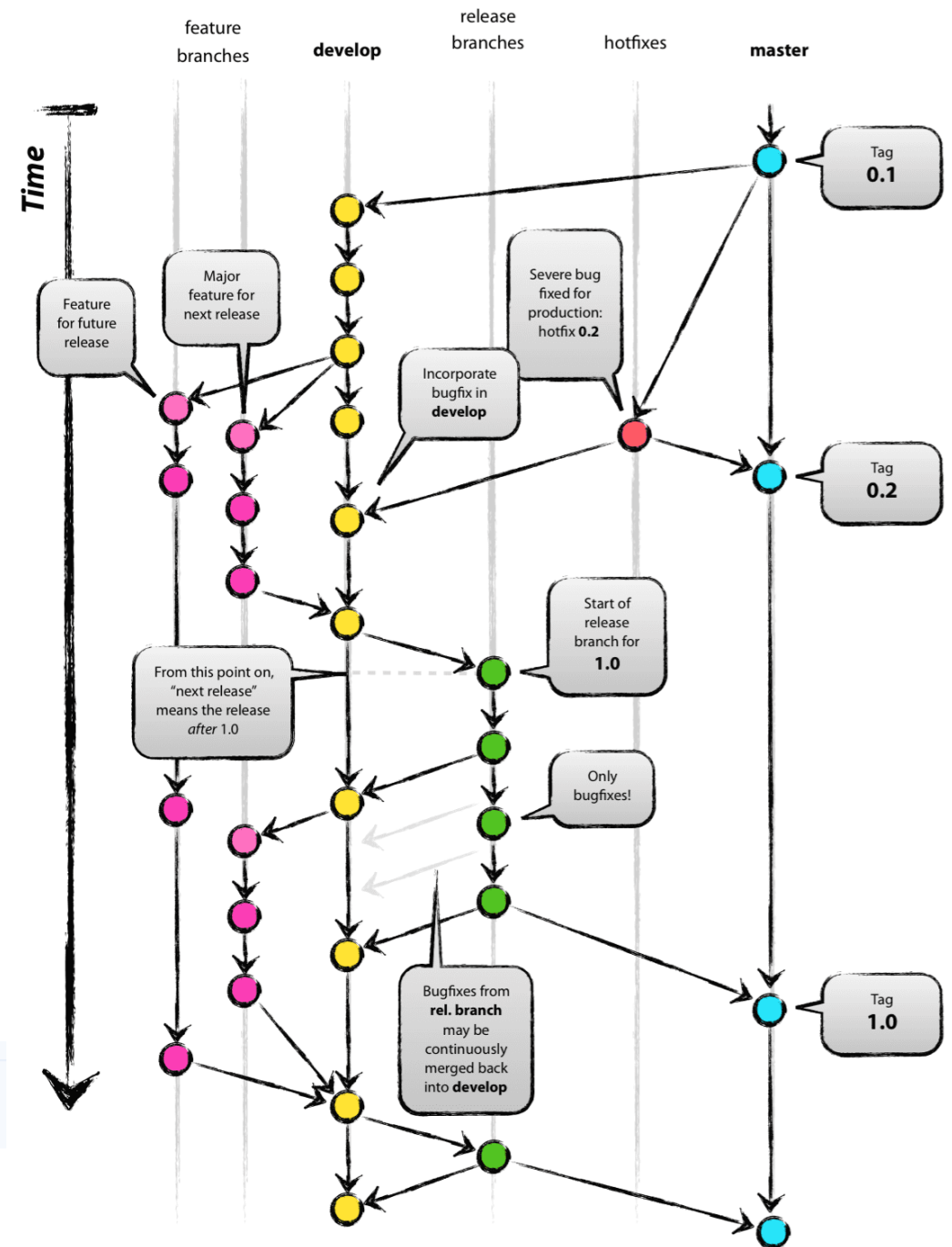
This week's progress

- Implement based on [class design](#)
 - We already discussed role-distribution & assignment last week. Thus, Each member has own part. This week's main challenge is 'implementing each part'
- Share issues below

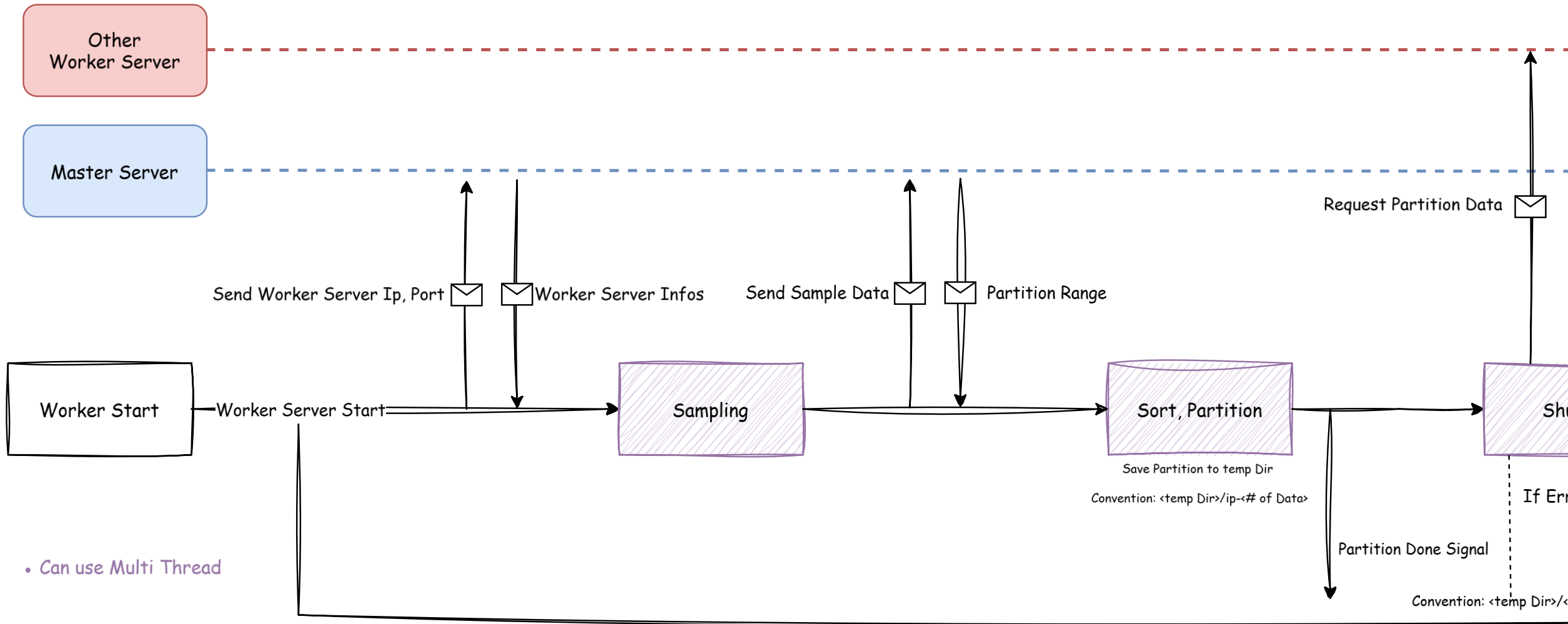
Issues

- Worker
 - gensort -b <num> 으로 데이터 생성 시 Byte로 생성됨 → Source.fromFile 으로 읽고, 이를 mkString으로 String으로 바꾸지 못함
 - 만약 Byte로 할 시에 1000 0000 > 0111 1111 으로 간주해야할지 그 반대가 되어야 할지 문의가 필요
- MasterServer
 - register 구현 완. → lock.synchronized 어디까지 묶을 지 아직 안 정함
 - register synchronized 묶는 범위 정해지면, TrieMap → mutable.Map 등등 수정해야 할 듯?
 - canShutdown → WorkerServer에서 isAlive 구현 이후 작성해도 상관 없을 듯
- Master
 - 아직 미구현
- Common

+ 신규 그룹



Flow Chart - Worker



Server Methods

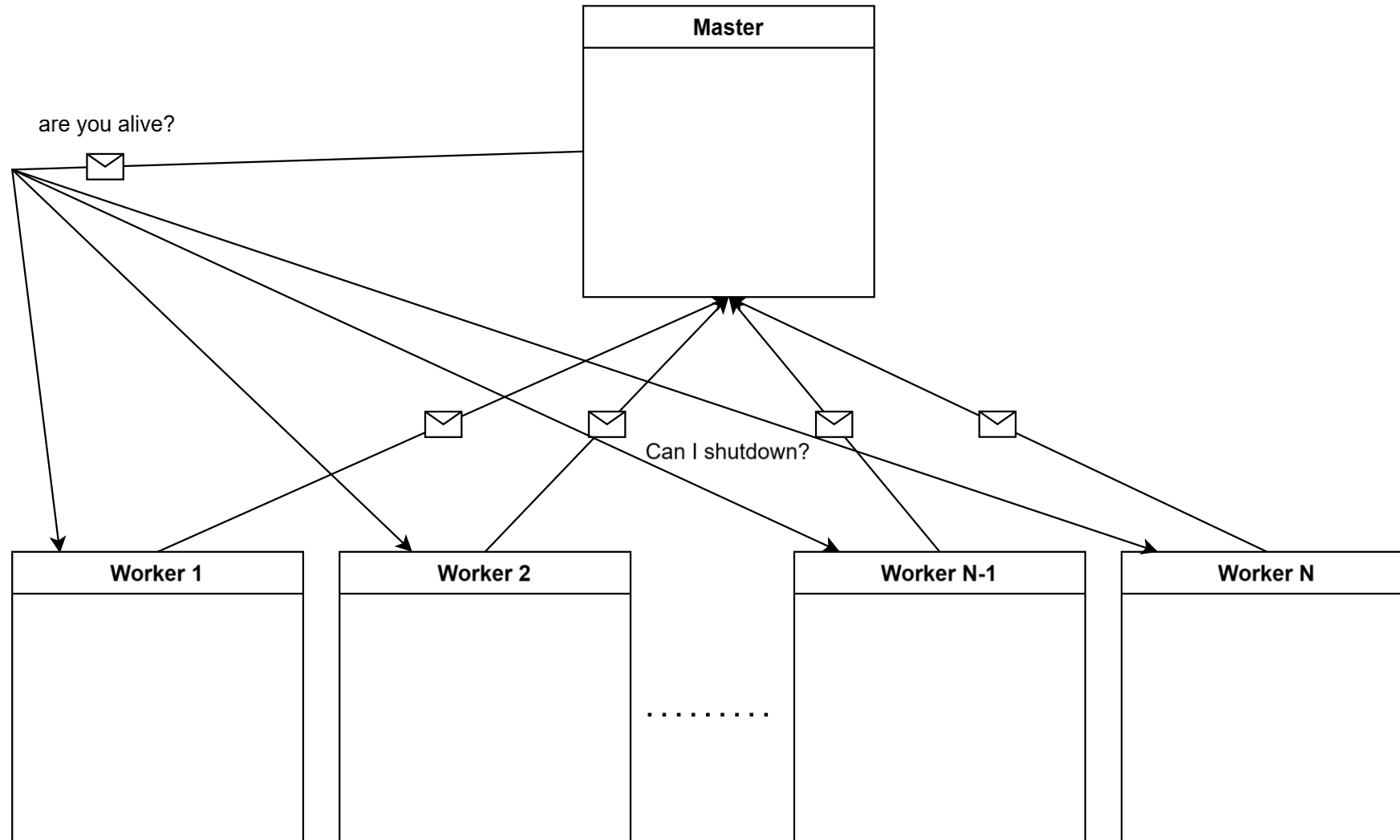
Master Server

register : (Ip, Port) ->(WorkerInfos, Version)
getPartitionRange : Samples -> PartitionRange
getUpdatedWorkerInfo : Version -> WorkerInfo
canShutdownServer : () -> Boolean

Worker Server

setPartitionDone : () -> ()
getData : Ip -> PartitionData
isAlive: () -> Boolean

Why use isAlive



Q&A

Feel free to ask any questions