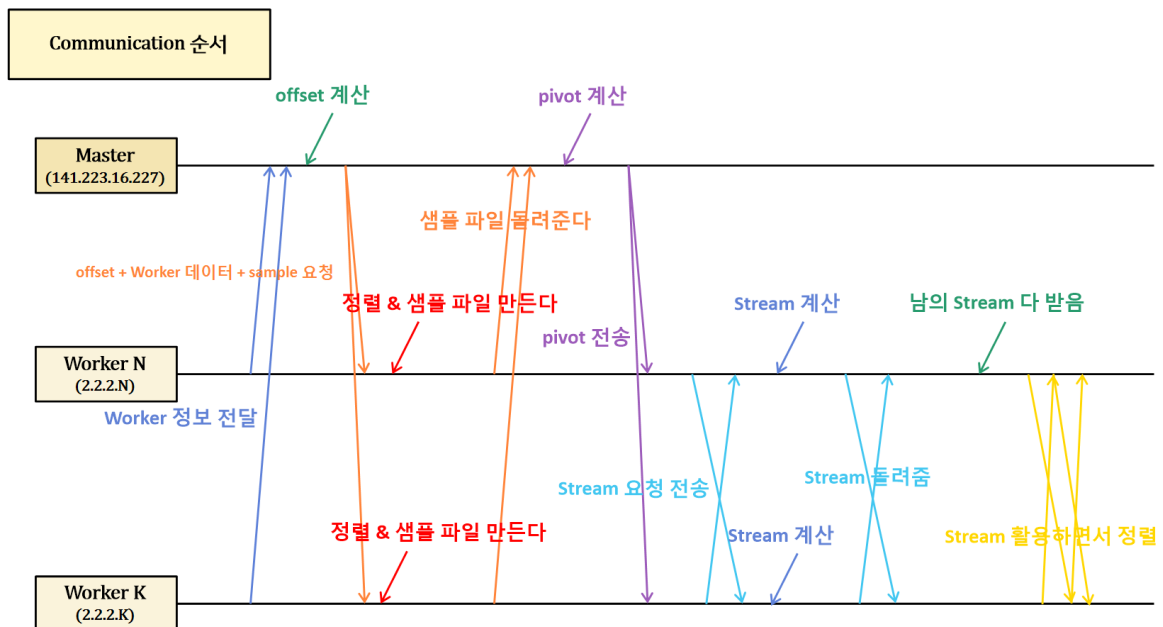


Week 5 report

DATE/TIME	2024-11-17 19:05 ~ 23:24
PARTICIPANT	공현성(nyeoglya), 차선호(carprefer), 박찬웅(zlfn)
TITLE	Physical Code Design
	MAIN DISCUSSION

#공통

- 맨 처음, Worker가 Master의 ip정보를 가지고 있으므로, Worker가 Master에 offset정보 요청을 함으로 통신 개시하도록 구조 수정



nyeoglya

- class MasterLogic extends MasterServiceLogic 구현

```

def run()
def clientLayers: List[Layer[Throwable, WorkerServiceClient]]
def collectSample(client: Layer[Throwable, WorkerServiceClient]): ZIO[WorkerServiceClient, Throwable, Pivots]
def selectPivots(pivotCandidateZIOList: ZIO[Any, Throwable, List[Pivots]]): ZIO[Any, Throwable, Pivots]
def sendPartitionToWorker(client: Layer[Throwable, WorkerServiceClient], pivots: Pivots): Task[Unit]
  
```

zlfn

- master와 worker의 Main함수 재구성 및 통신 레이어 구성
- Worker에서 Master에 정보 전달하는 부분 구현(Worker의 Main부)
- common.proto 작성

```

service MasterService {
    rpc SendWorkerData(WorkerDataRequest) returns (WorkerDataResponse);
}
service WorkerService {
    rpc GetSamples (SampleRequest) returns (Pivots);
    rpc StartSort (SortRequest) returns (SortResponse);
    rpc SendData (stream Entity) returns (DataResponse);
}
message WorkerDataRequest {}
message WorkerDataResponse {
    int64 fileSize = 1;
    string workerAddress = 2;
}
message SampleRequest {
    int64 offset = 1;
}
message Entity {
    string head = 1;
    string body = 2;
}
message Pivots {
    repeated string pivots = 1;
}
message SortRequest {
    Pivots pivots = 1;
    repeated string workerAddresses = 2;
}
message SampleResponse {
    repeated string pivots = 1;
}
message SortResponse {}
message DataResponse {}

```

carprefer

- class WorkerLogic extends WorkerServiceLogic 구현
- 네트워크 없이 따로 테스트해서 구현한 함수들을 재구성하여 아래 logic 구현

```

def inputEntities: Stream[Throwable, Entity]
def getFileSize(): Integer
def saveEntities(index: Integer, data: Stream[Throwable, Entity])

```

```
def getSampleStream(offset: Integer, size: Integer): List[String]
def getDataStream(partition: Pivots): List[Stream[Throwable, Entity]]
def sortStreams(data: List[Stream[StatusException, Entity]]): Stream[Throwable, Entity]
```

2024.11.17.

REPORTER 공현성, 박찬웅, 차선희