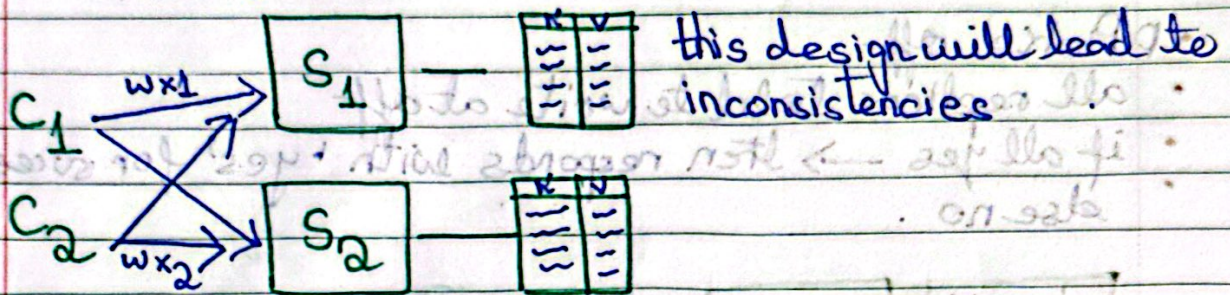


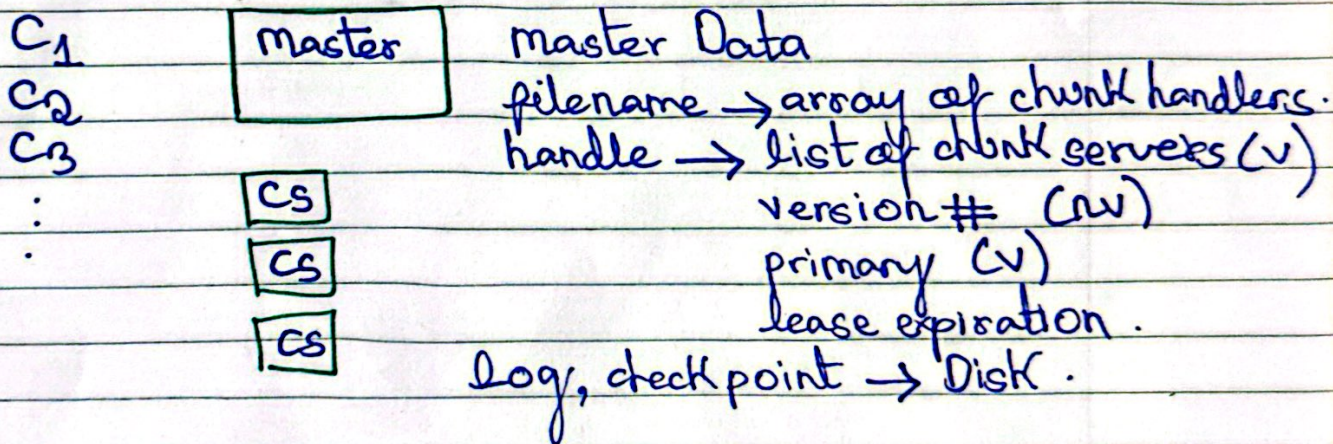
Property of the half blood prince GFS

Big Storage

- distribute all the data on many number of servers in order to be able to read many servers in parallel so that's called sharding. → performance
- Faults → tolerance → with replication just keep two or three or whatever copies of data.
- Replication → inconsistencies
- consistency → low performances



GFS



Read

- ① name, off → M
- ② M sends H, list of S (chunk handle)
cached → closest server.
- ③ C → CS
data

- Writes

Client makes a library call that says heres a file name and like to append this buffer of bytes of the file client asks the master look I want to append sends a master requesting for that file, and where to look for the last chunk in which server - Find upto date replicas.

- Pick P, S
- Increment V#
- Tells P, S and V# - lease for few seconds so there
- M writes V# to disk. are no two primary
- P Picks off
- all replicas told to write at off
- if all yes → then responds with 'yes' for success.
- else no.

