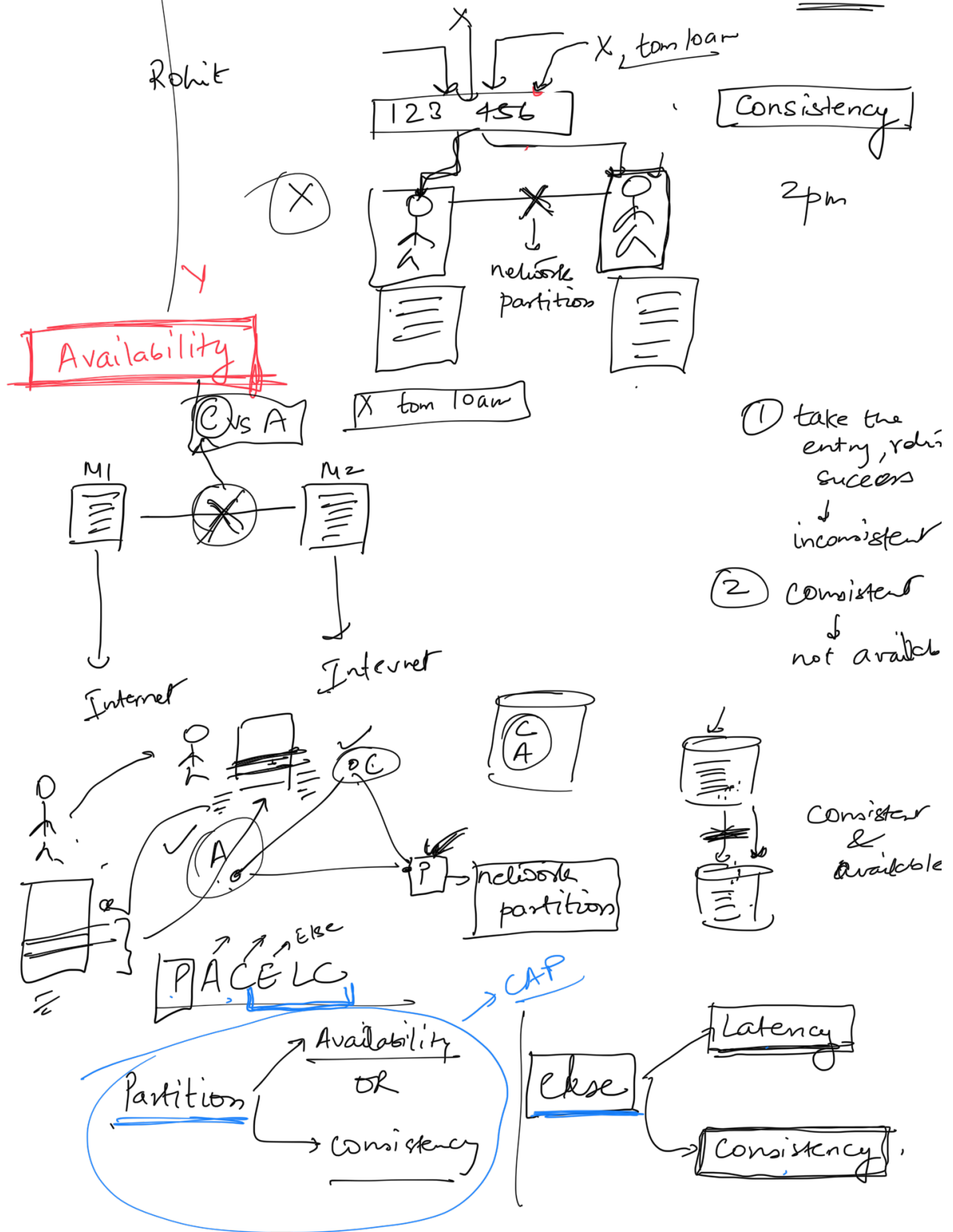
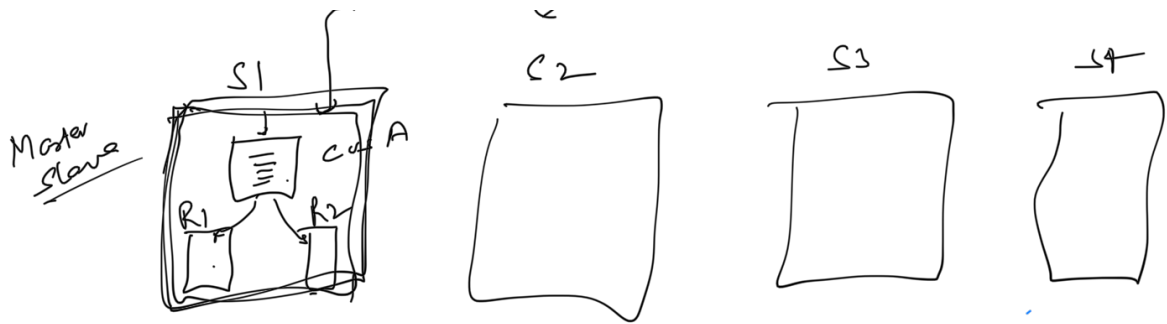
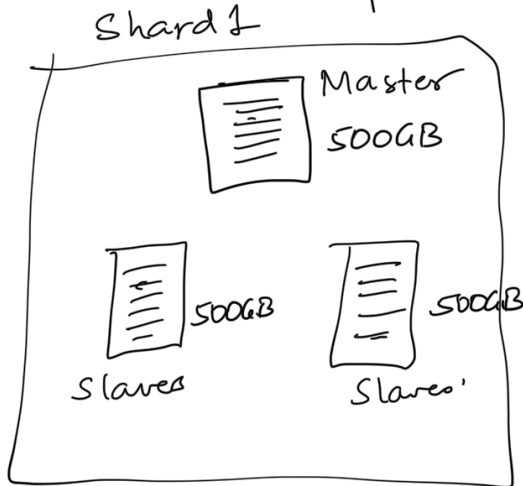


STORAGE : CAP THEOREM, PACELC & MASTER SLAVE

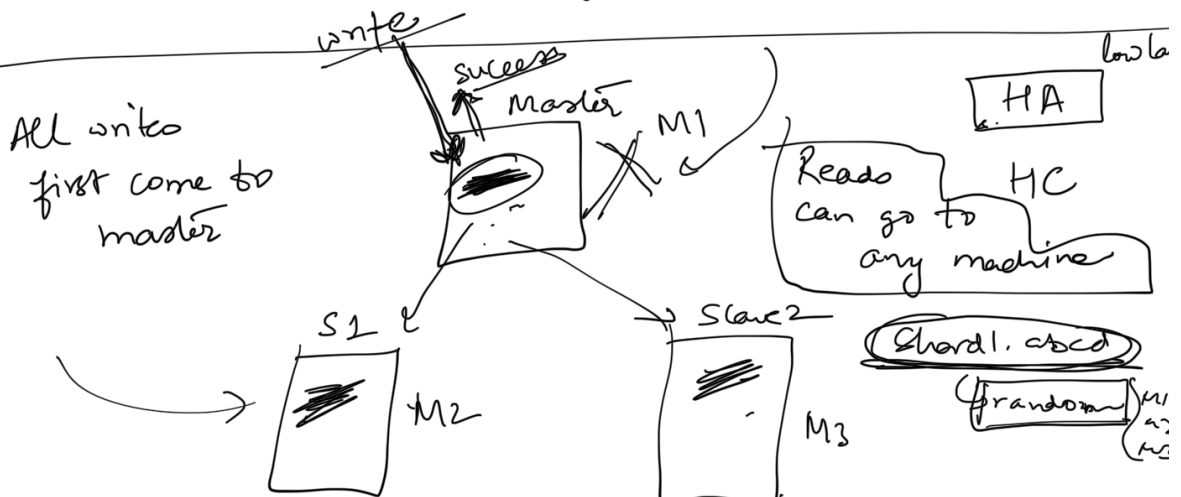
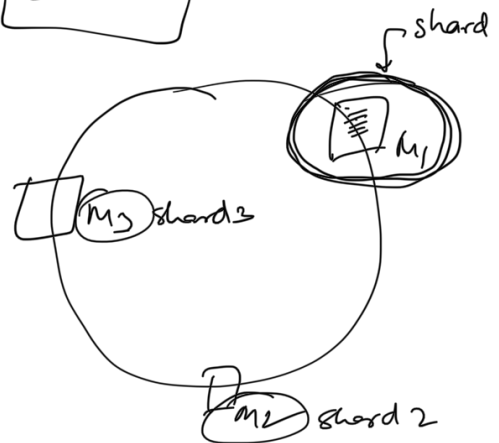
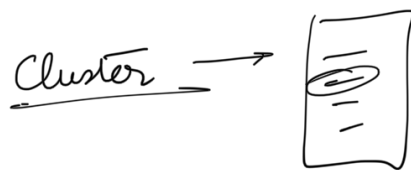




## Replicas and how to sync replicas

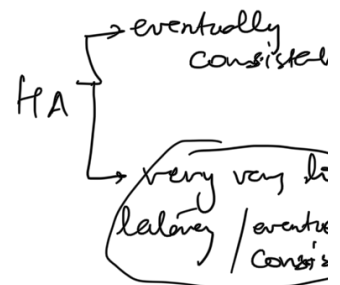


Rohit  
Arinam  
Salig  
Sanib



HA, not eventually consistent

- ① Master takes the write  
↳ if success, return success
- ② Async, best try to sync with slave1 & slave2



$\Rightarrow$  HA, eventual consistency

- ① Master writes  
↳ one slave writes  
↳ success is returned

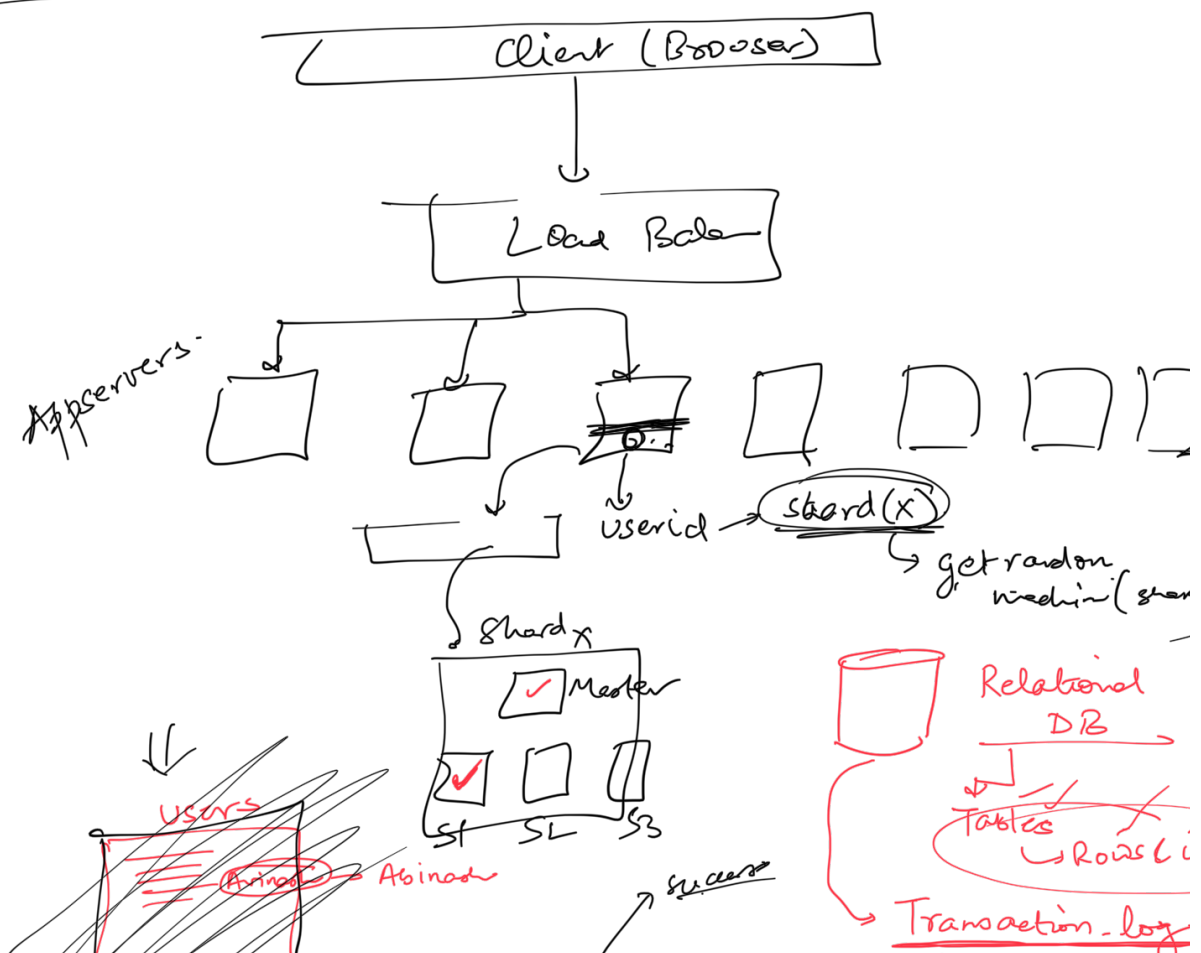
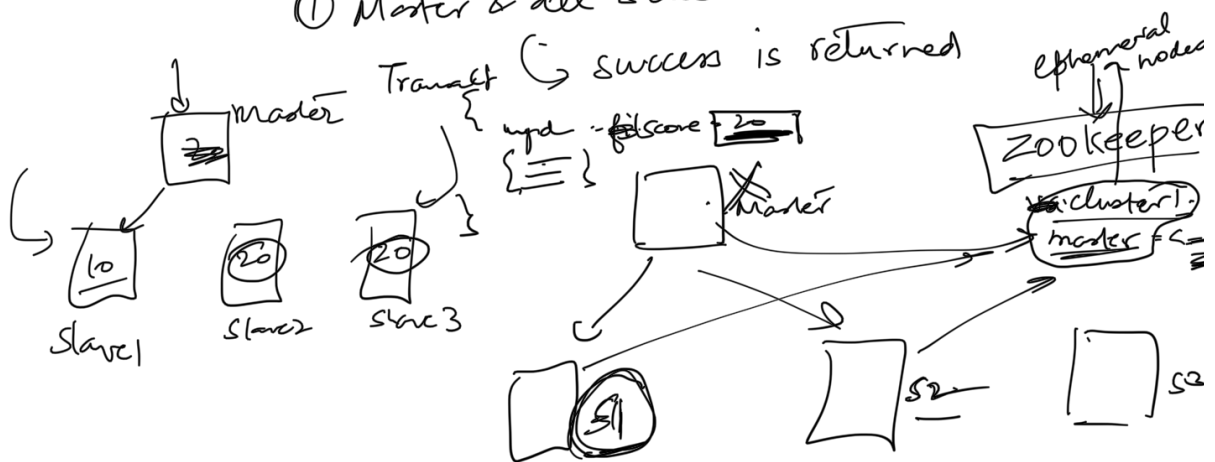
- ② All slaves sync'

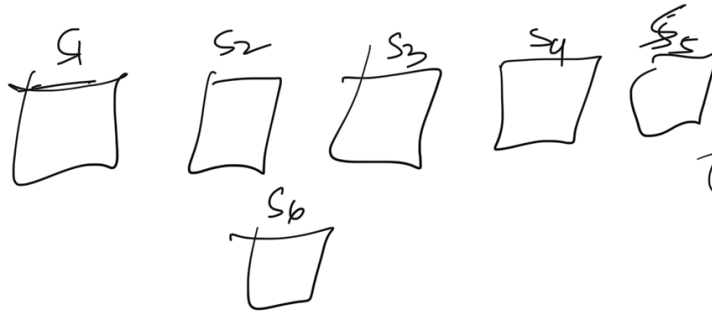
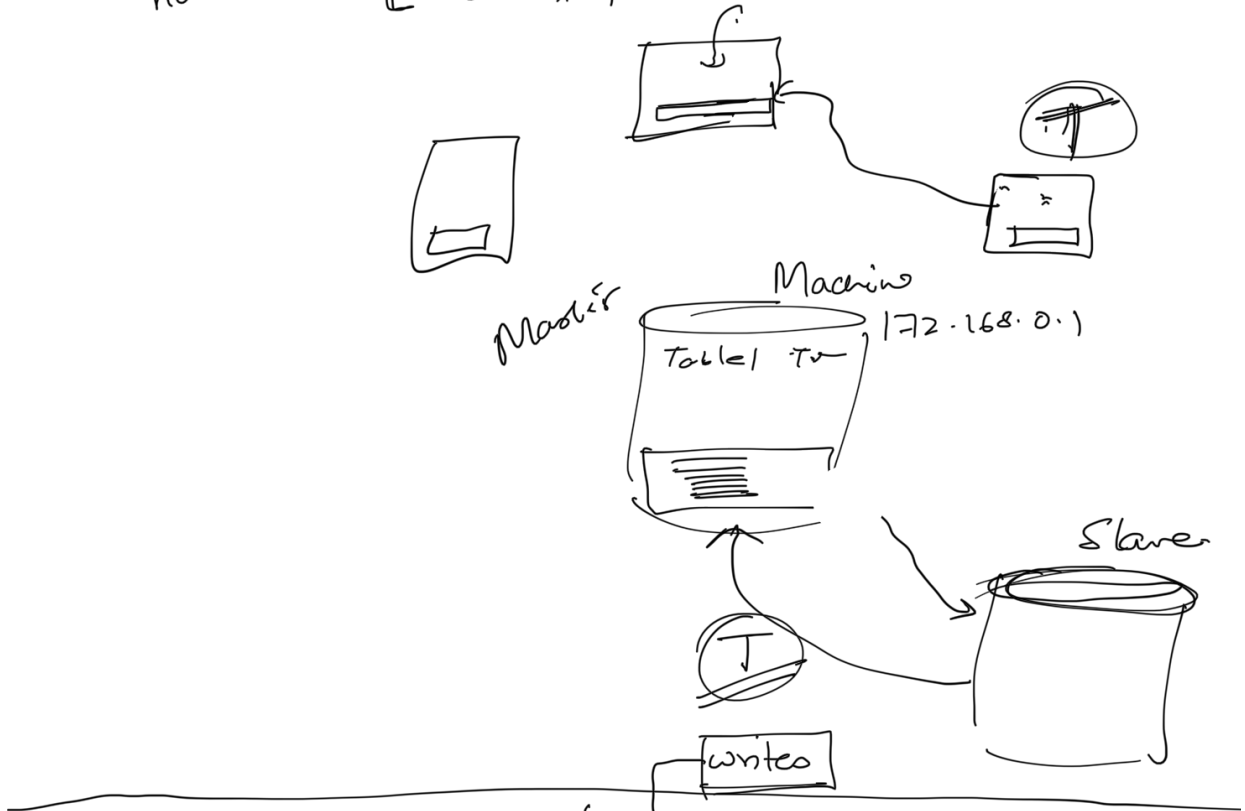
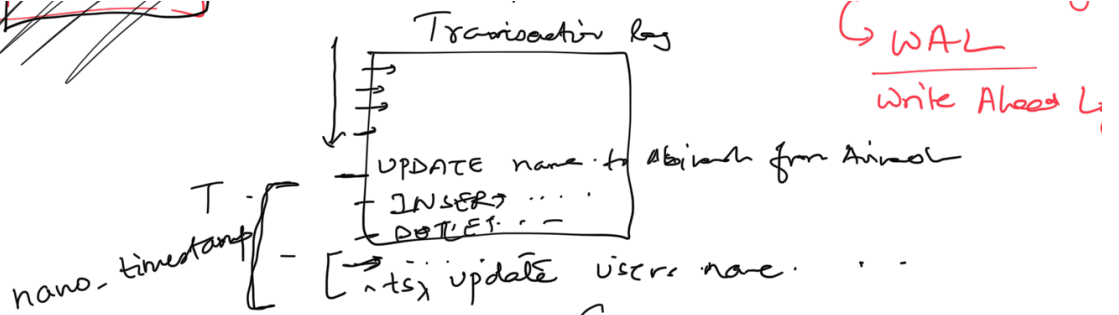
$H$  immediate consistency

Score = ~~10~~ + ~~20~~

- ① Master & all slaves write

Transact  $\rightarrow$  success is returned





① writes are too many  
↓  
master becomes bottleneck

② HC  
Slave → rate for later

