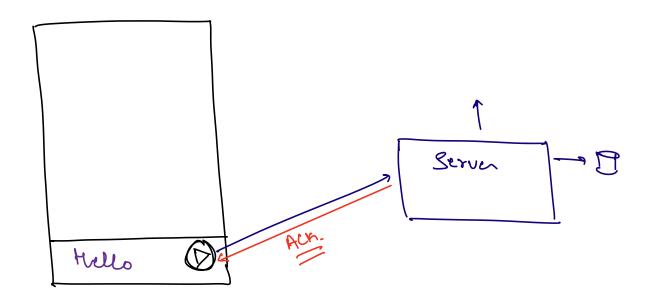
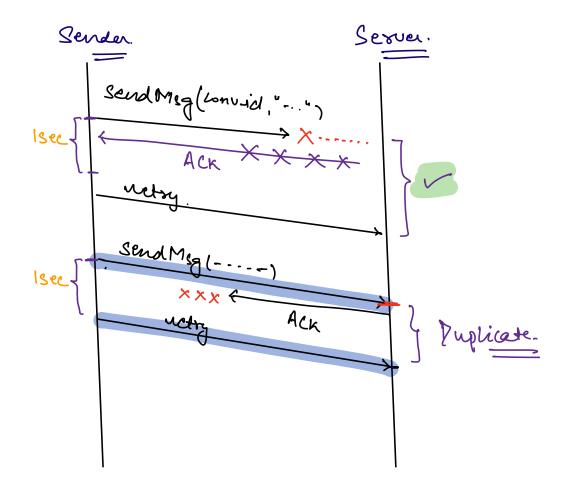
Agenda.

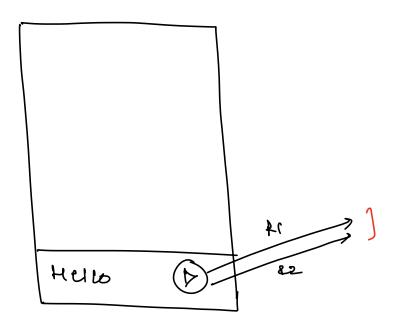
-> Idempotency.

-> Shaeding Key.

# Idempotency.



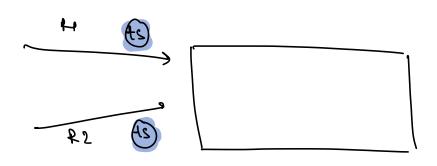


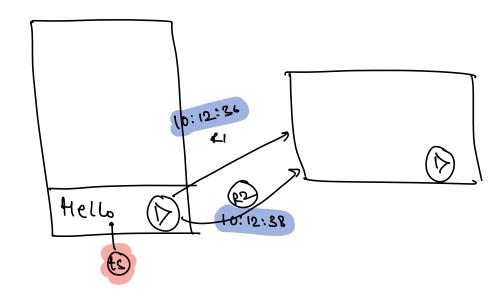


Send Meg (Senderid, Convid, Content, meg id)

Exerciated in itself that can be used by the server to identify if the usquest is a new request or a duplicate request.

=> meg\_id: timestemp. + user id + device info.



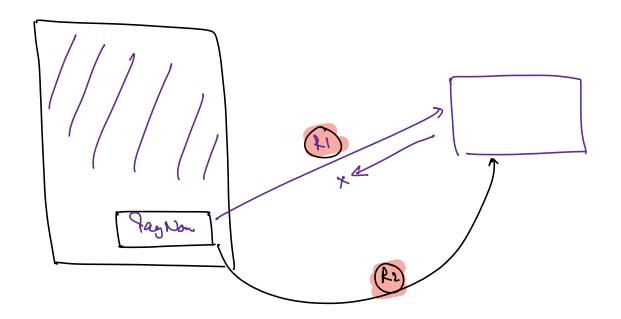


1 timestamp of last typed clear.

meg-id: device-info + merid + timestemp.

(04 last typed Charactur)

Idempotency key.



=> Reconciliation

24 hrs.

# SHARDING.

How to Choose Sharding Mey.

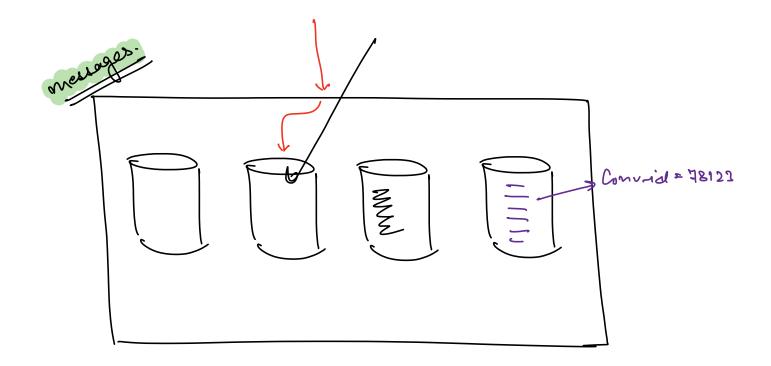
Intra Shard.

The get Mage (convid)

Fellowversations (userid)

Send Meg (----)

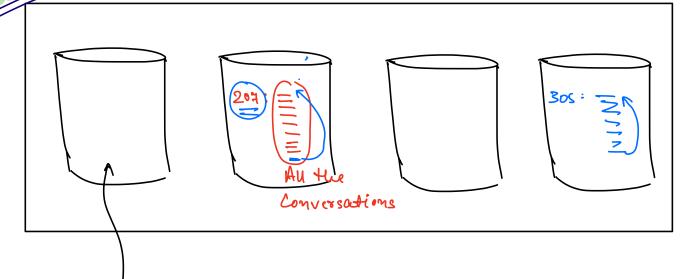
2) Convid.



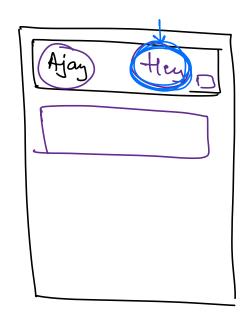
- → JetMege (convid) → 1
- => JerConversations (userid) => Muetiple.
- 3 Send Meg (neerid, convid, ...) => (1)

=> merid





Au the conversations of a farticular user mil be stored in one mc



207:

408123 : Hey

Jer Conversations (userid) => (1)

2 /B's menages 17B: Sharding they = Convict - Conversations DB Li: Sharding Key: weid. => getMaga (convid) => mereages DB (1 M/c) => JelConversations (userid) => Conversations DB (IM/c) 3 Send Meg (neerid, convid, ...) => 3 1/1c meneges DB => 1 M/c

Lonversations DB => 2 M/c