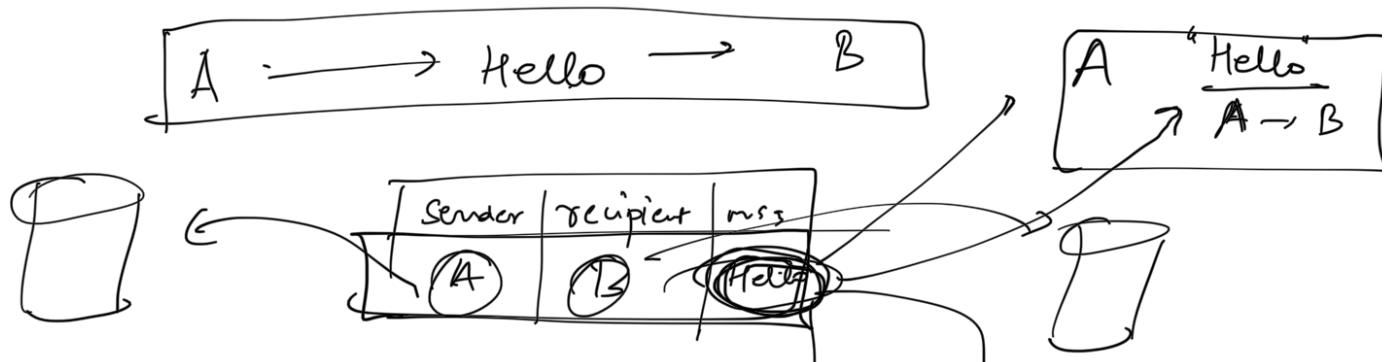
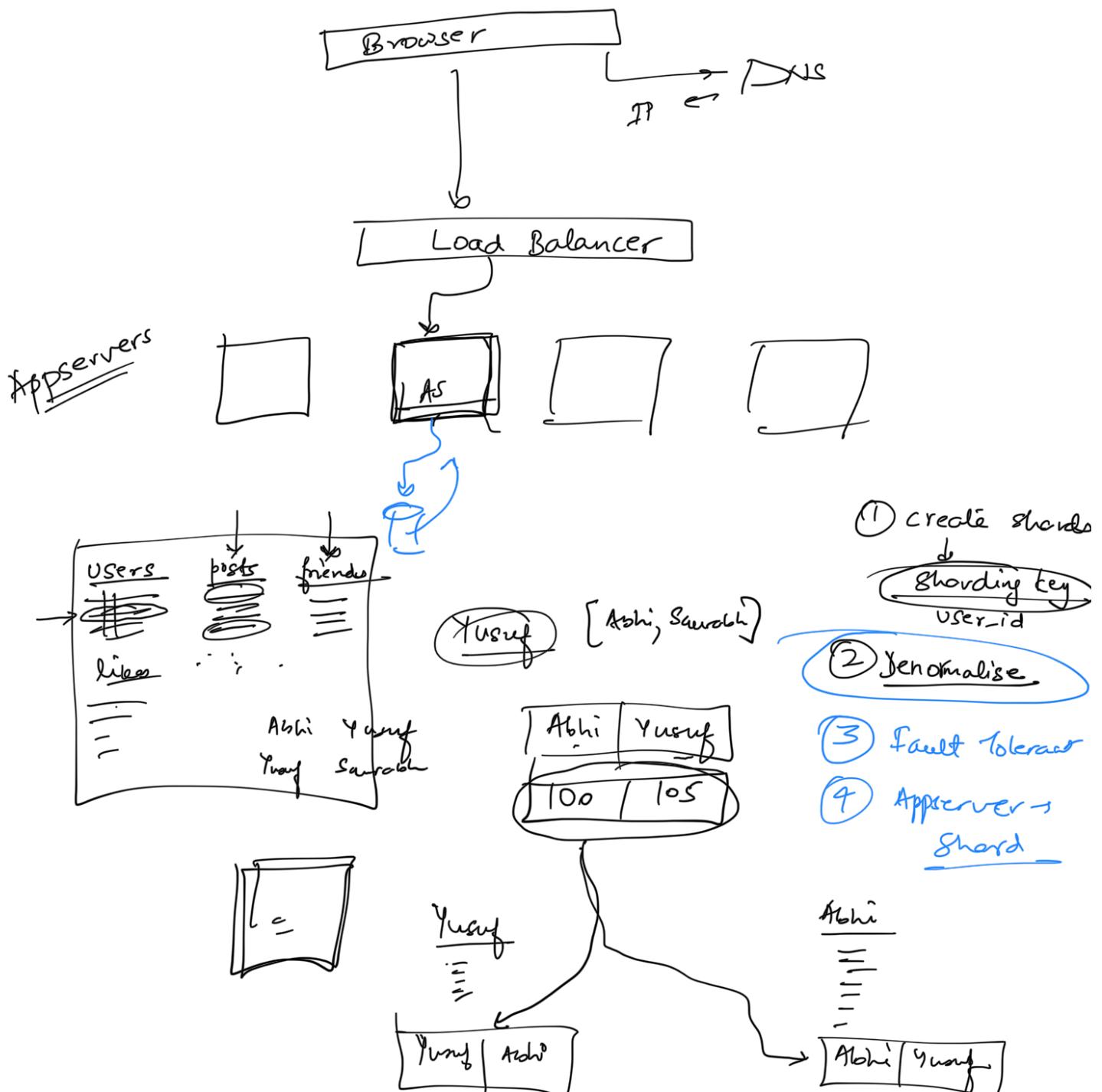
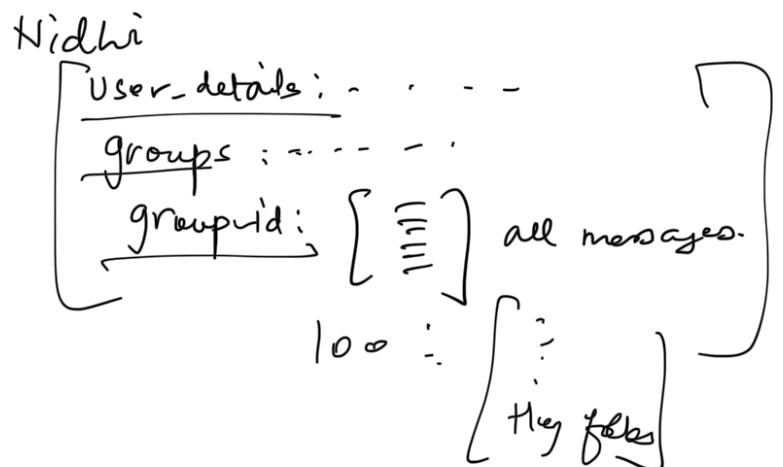
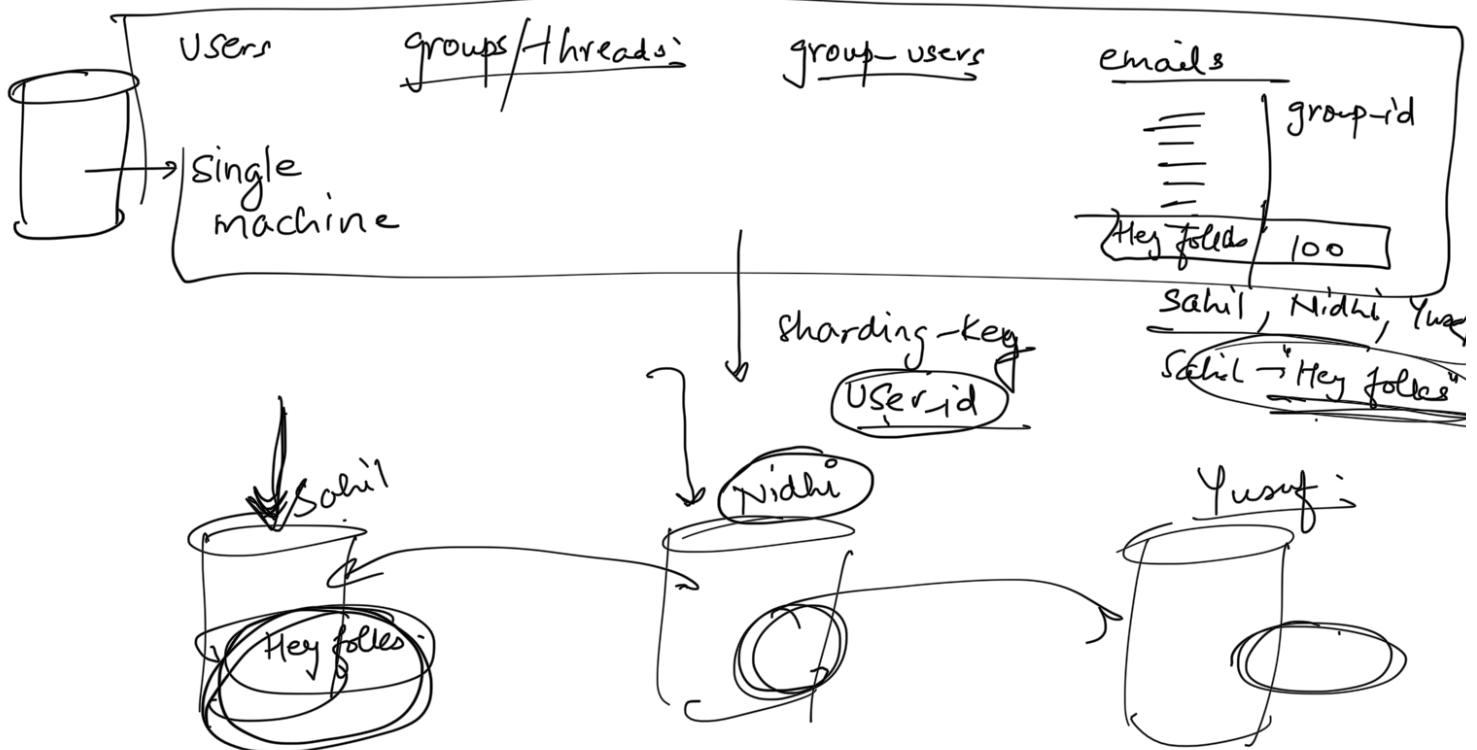
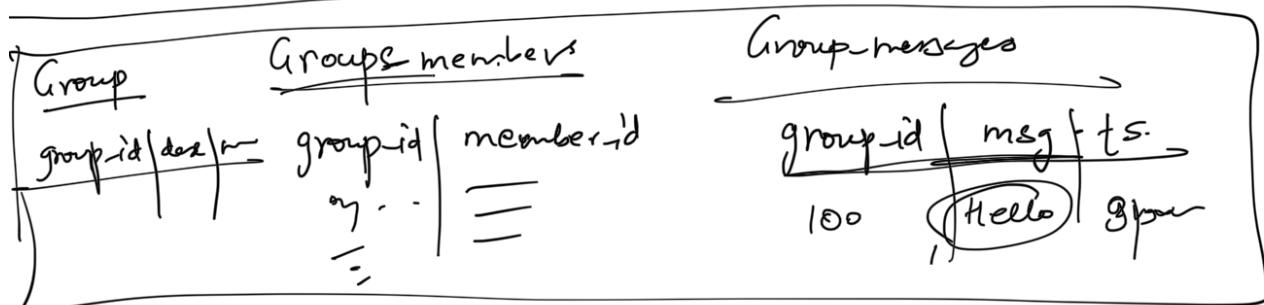
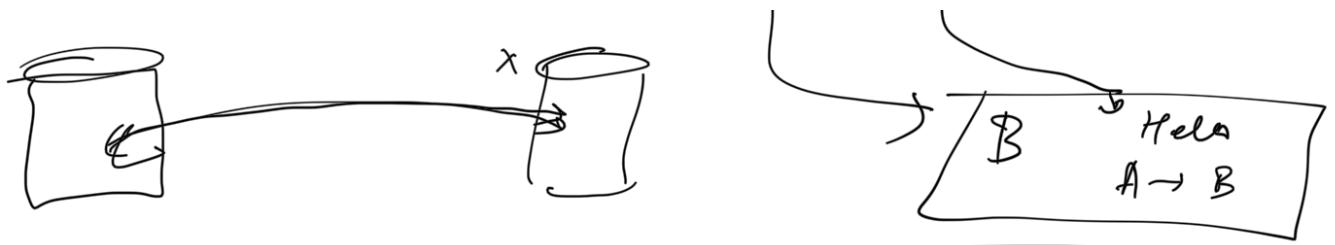
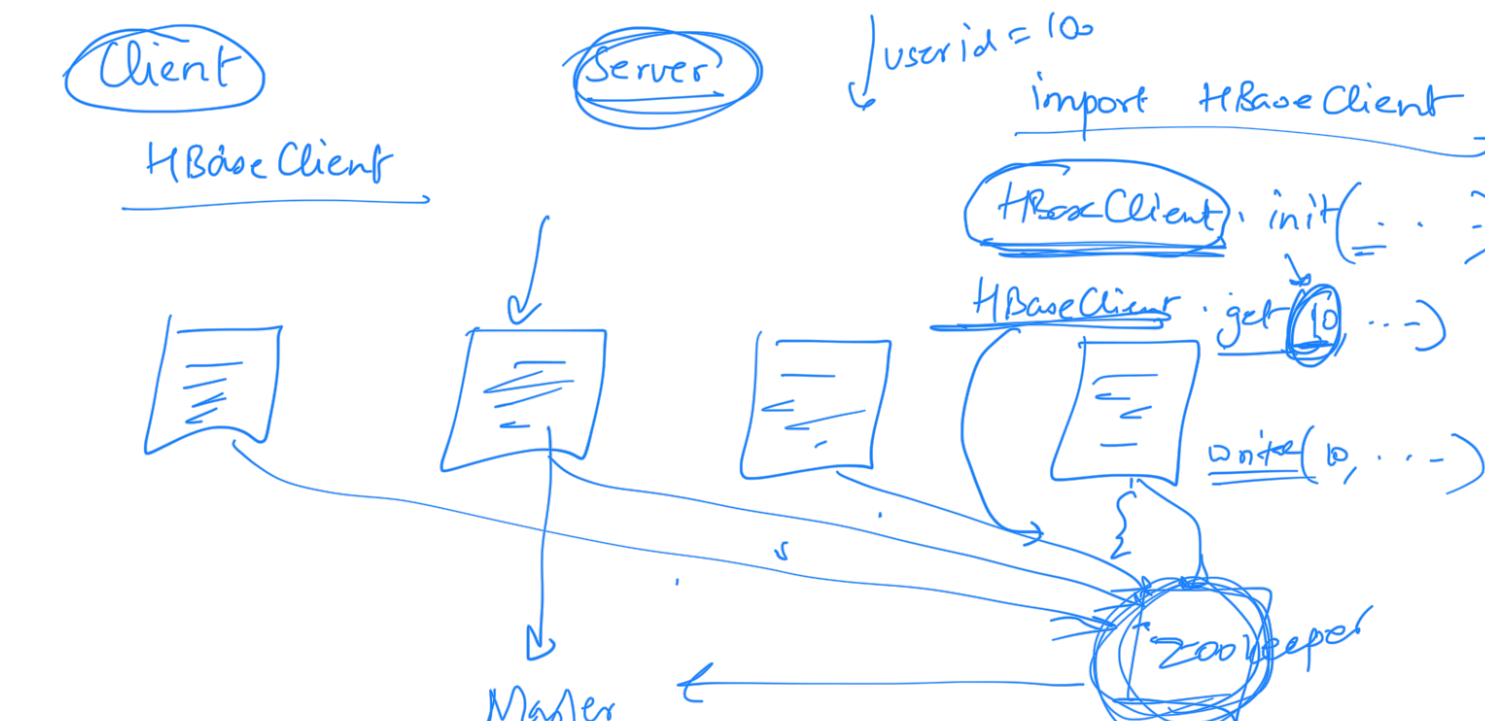
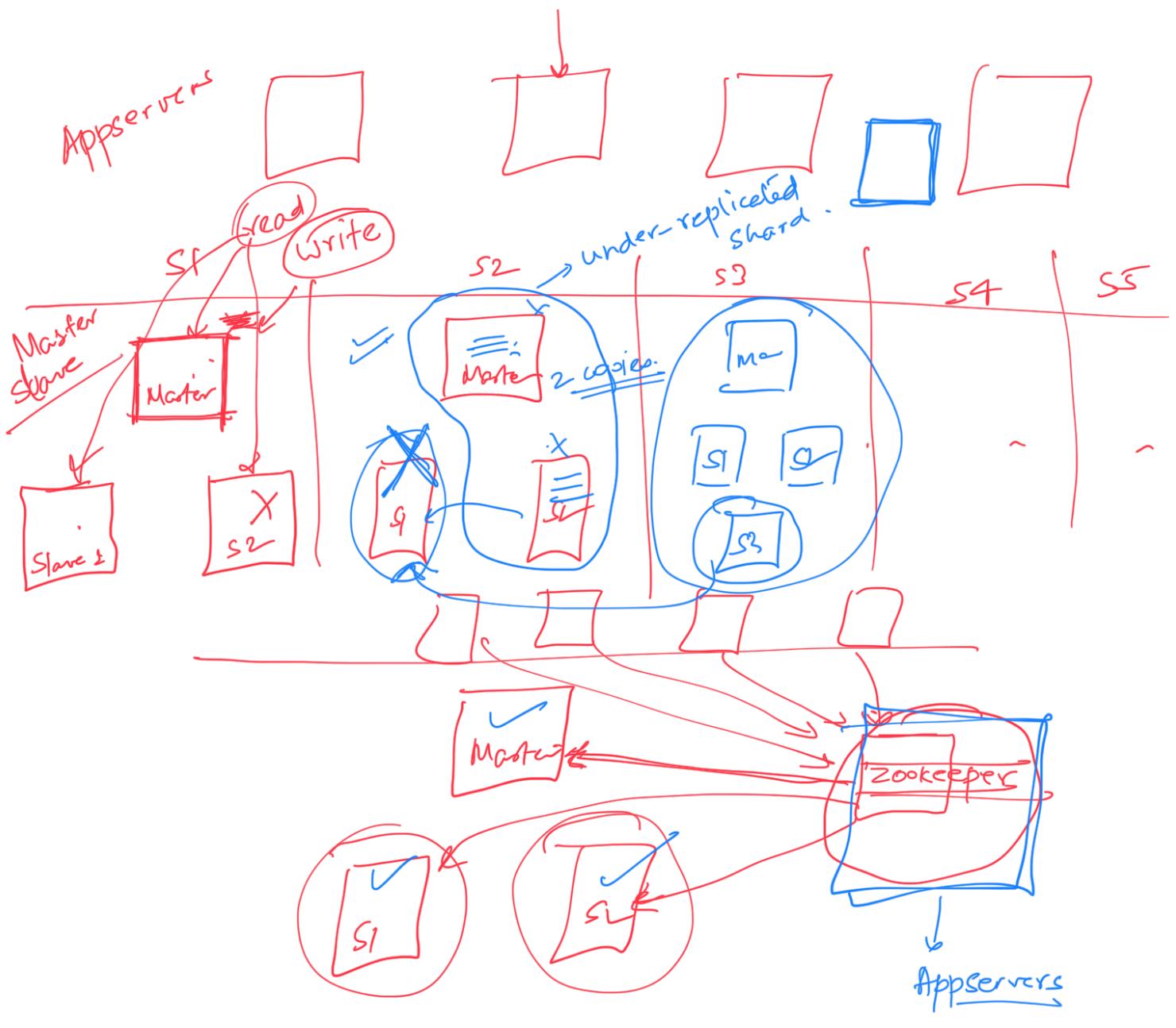


# NoSQL architecture

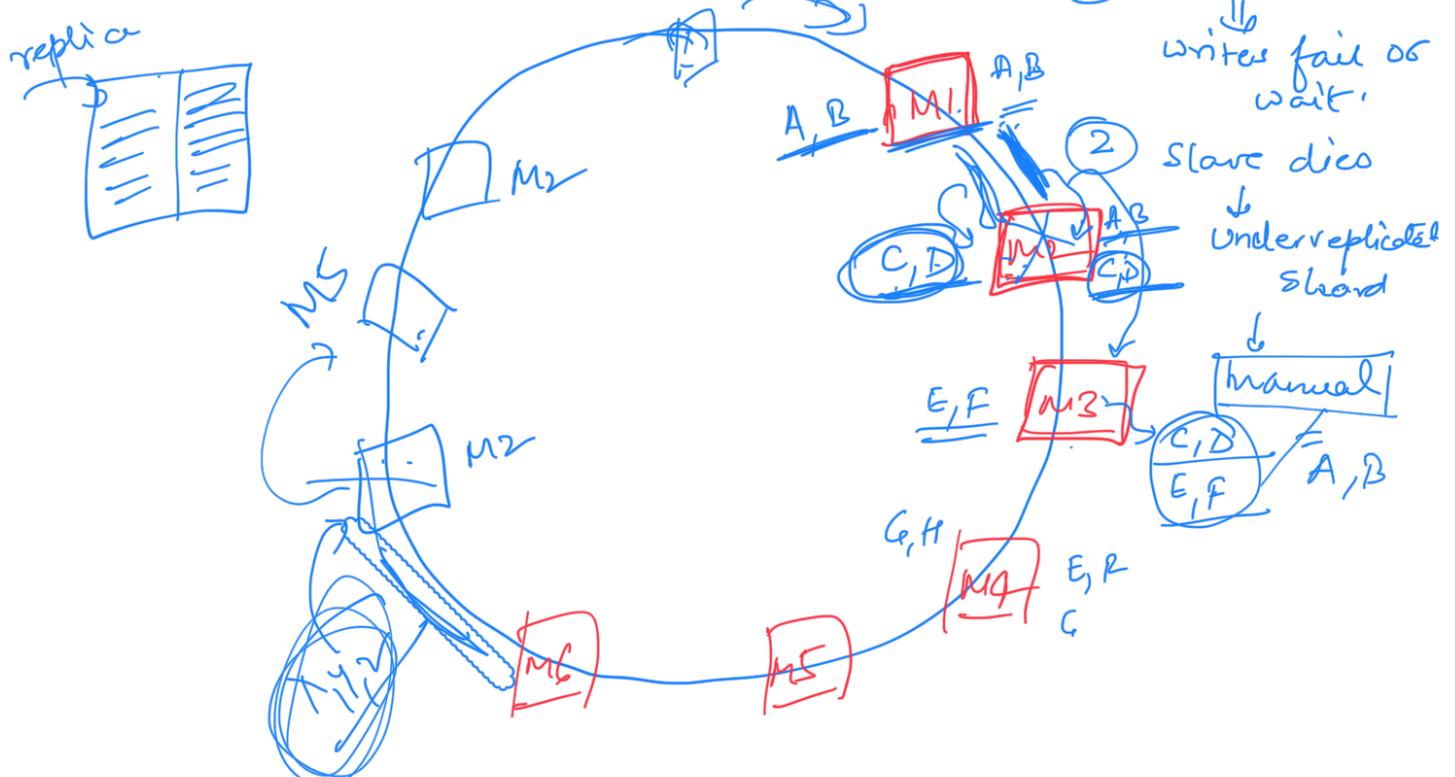


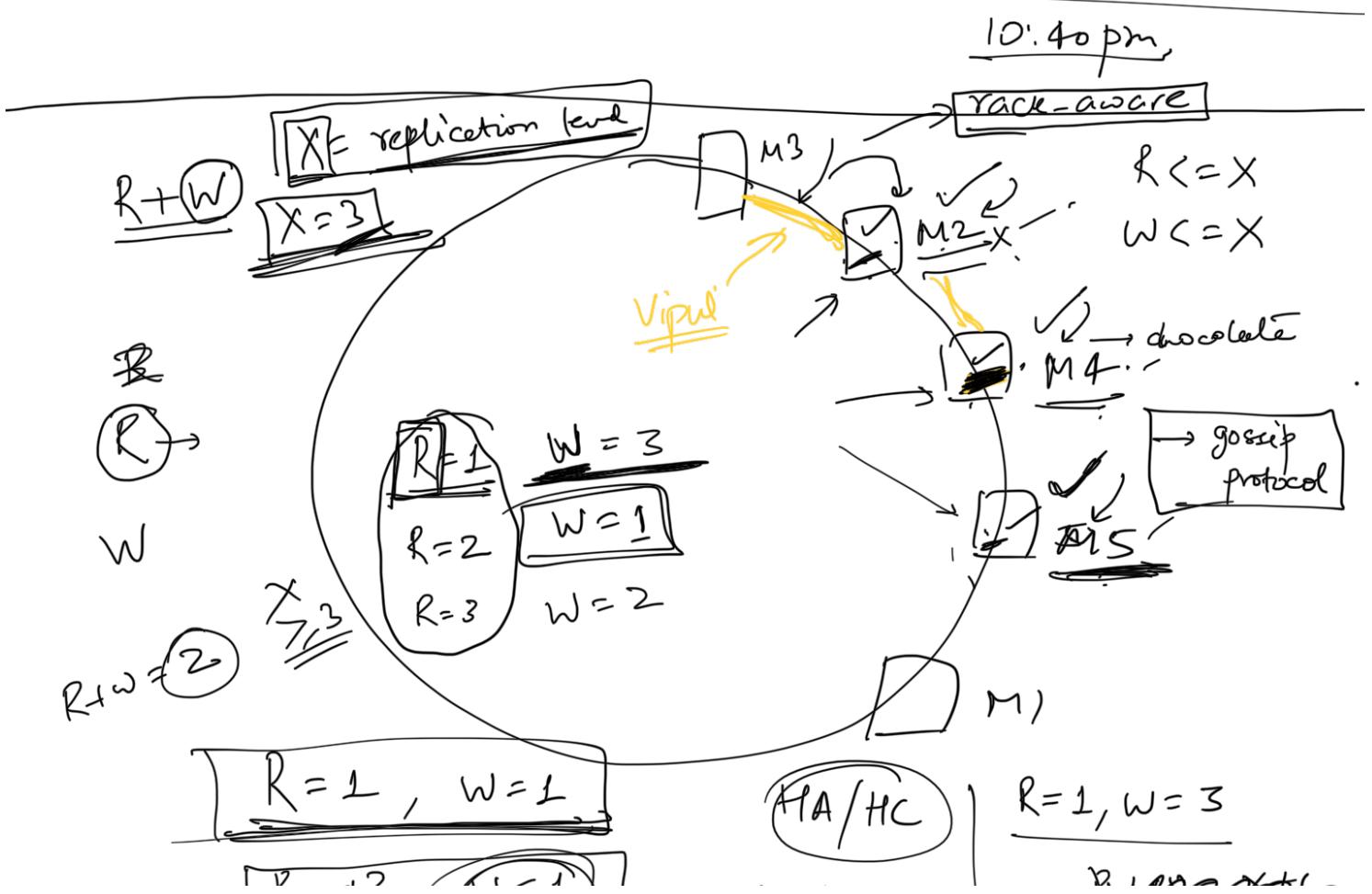
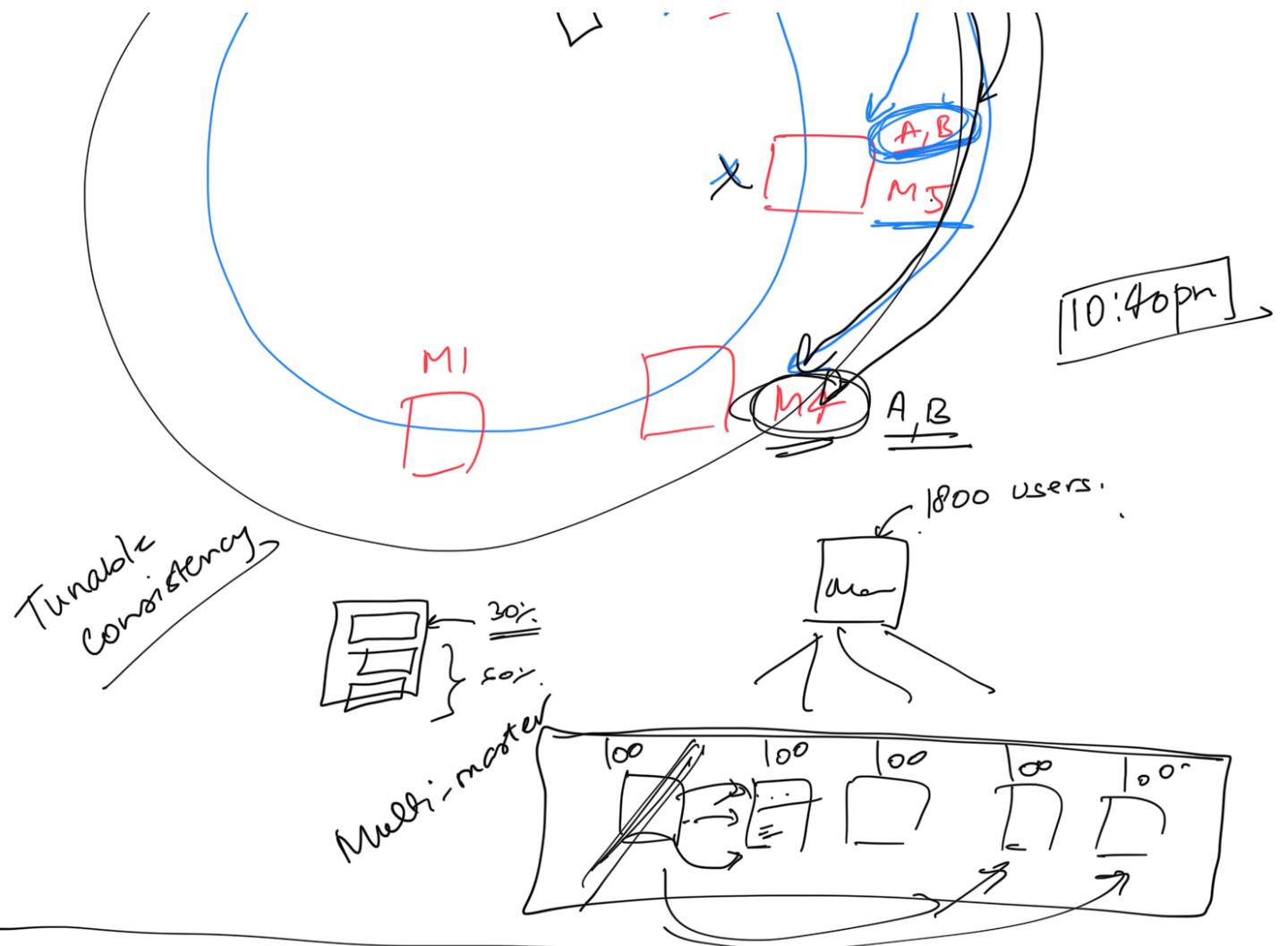


Load Balance



$\underline{\text{math. pow}}$  ( )  
 $\text{pow}(\dots)$  {  
 ...  
 }  
 ① Under-replicated shards → manual





~~$R = 2S$~~ ,  $(W = 1)$   $\rightarrow$  not HA

~~ACID~~

$R \downarrow$  reads faster

$W \uparrow$  writes faster

$$R + W > X \rightarrow \underline{\text{HC}}$$

Lower the  $R$ , faster is read  
Lower the  $W$ , faster is write

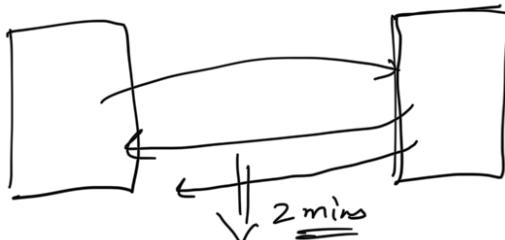
TUNABLE  
CONSISTENCY

$$R + W \leq X \rightarrow \text{HA}$$

$$R + W$$

$$\begin{array}{l} R=1 \\ \hline W=2 \end{array}$$

$$W=1$$



WAL

Gossip protocol



$$T=0$$

$$\underline{R=2}$$

$$\boxed{m_2}$$

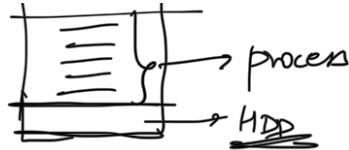
$$\underline{(m_5)}$$

$$\underline{W=2}$$

$$\boxed{m_2}$$

$$\boxed{m_4}$$





YouTube view counter  $X=3$

HA

$$R=1, W=1$$

~~W=2~~

$$\frac{1,000,000}{1,000,000} \cancel{B}$$

Instagram

$$R=1$$

$$\{W=1\} \rightarrow \text{losing info}$$

EC

$$W=2$$



$$R+w > 3$$

HC

Bank

$$R=2, W=2$$

~~D D~~

$$(R=1, W=3)$$

~~D D D~~

~~E E~~  
~~E E~~  
~~E E~~  
~~X~~

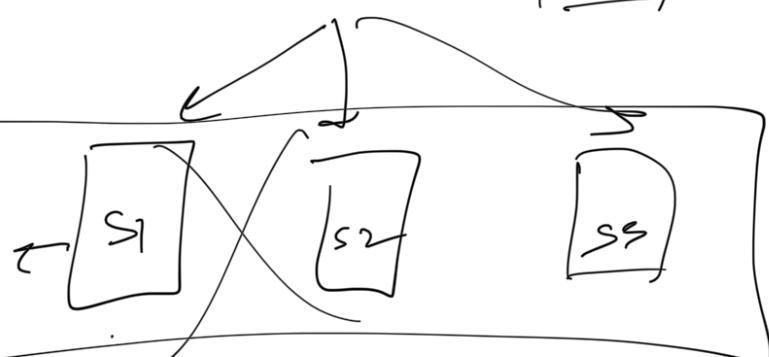
perf  
replication

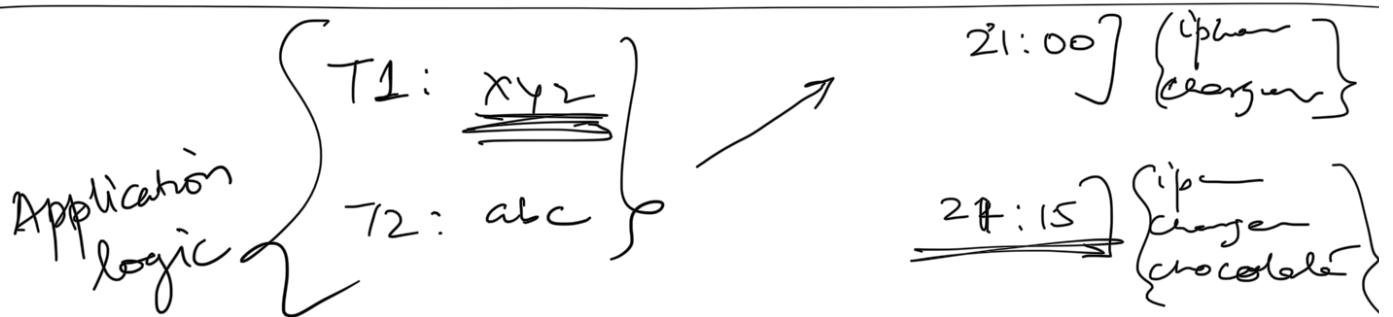
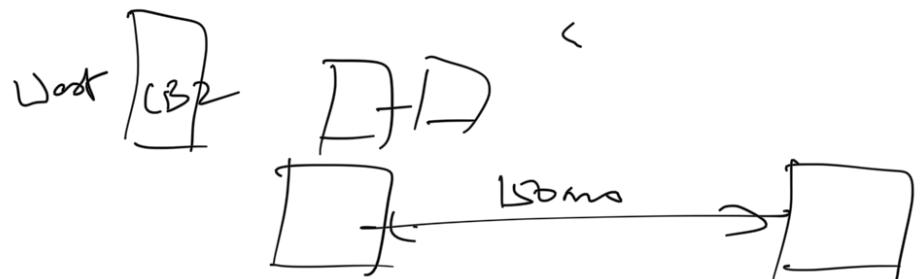
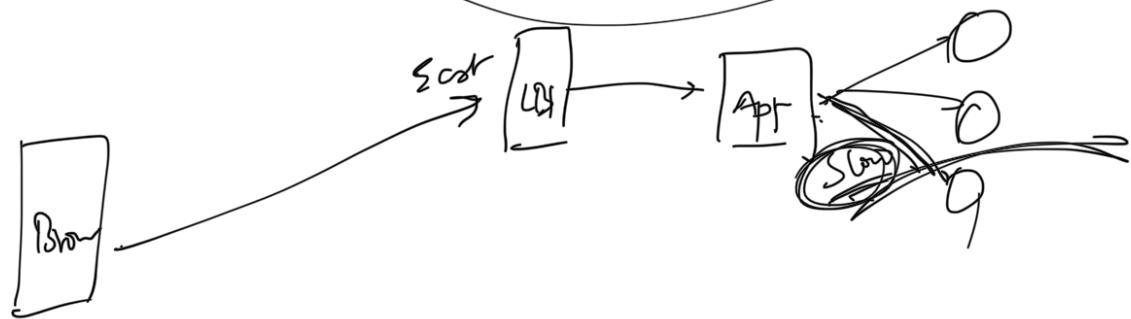
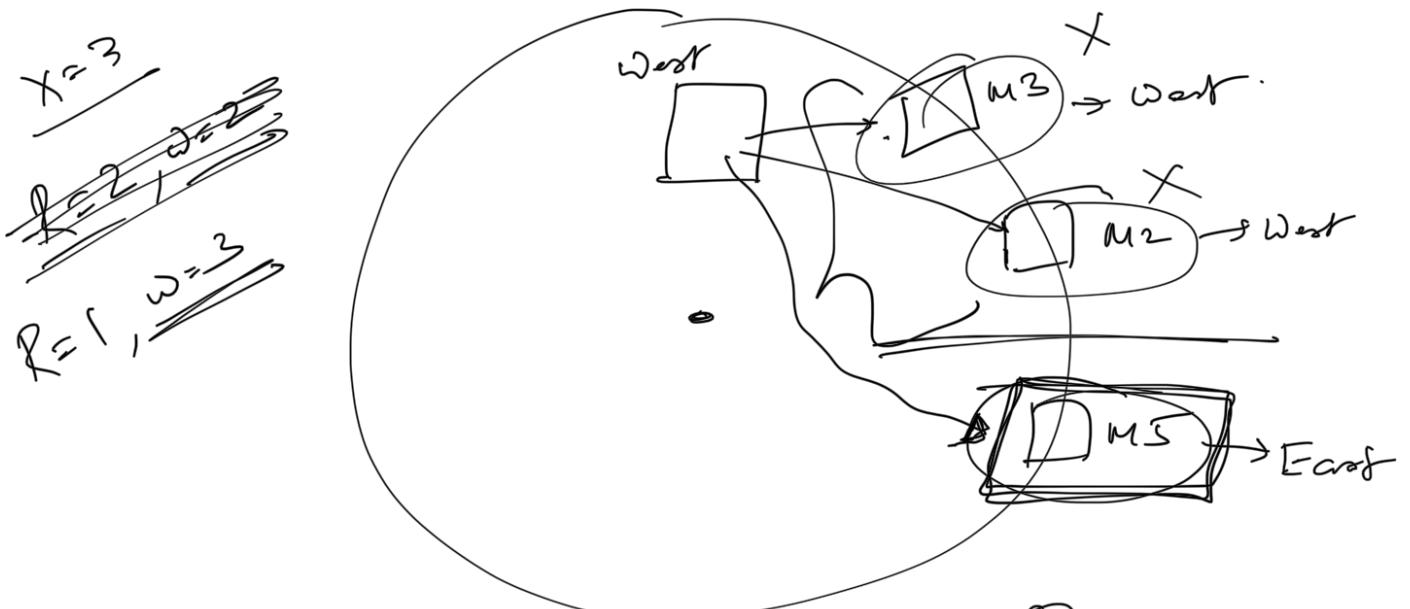
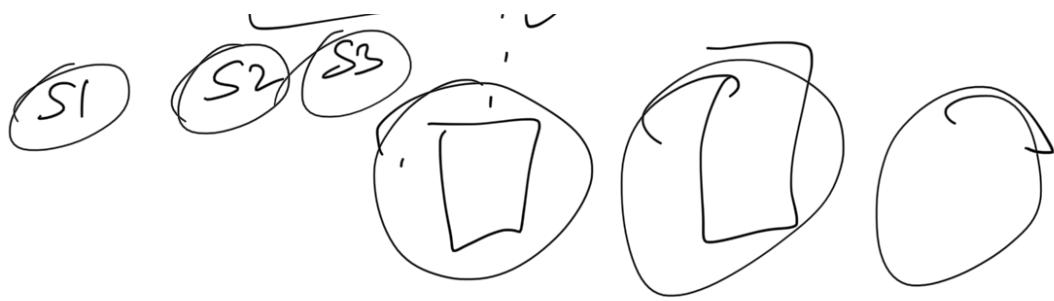
$$Am=2$$

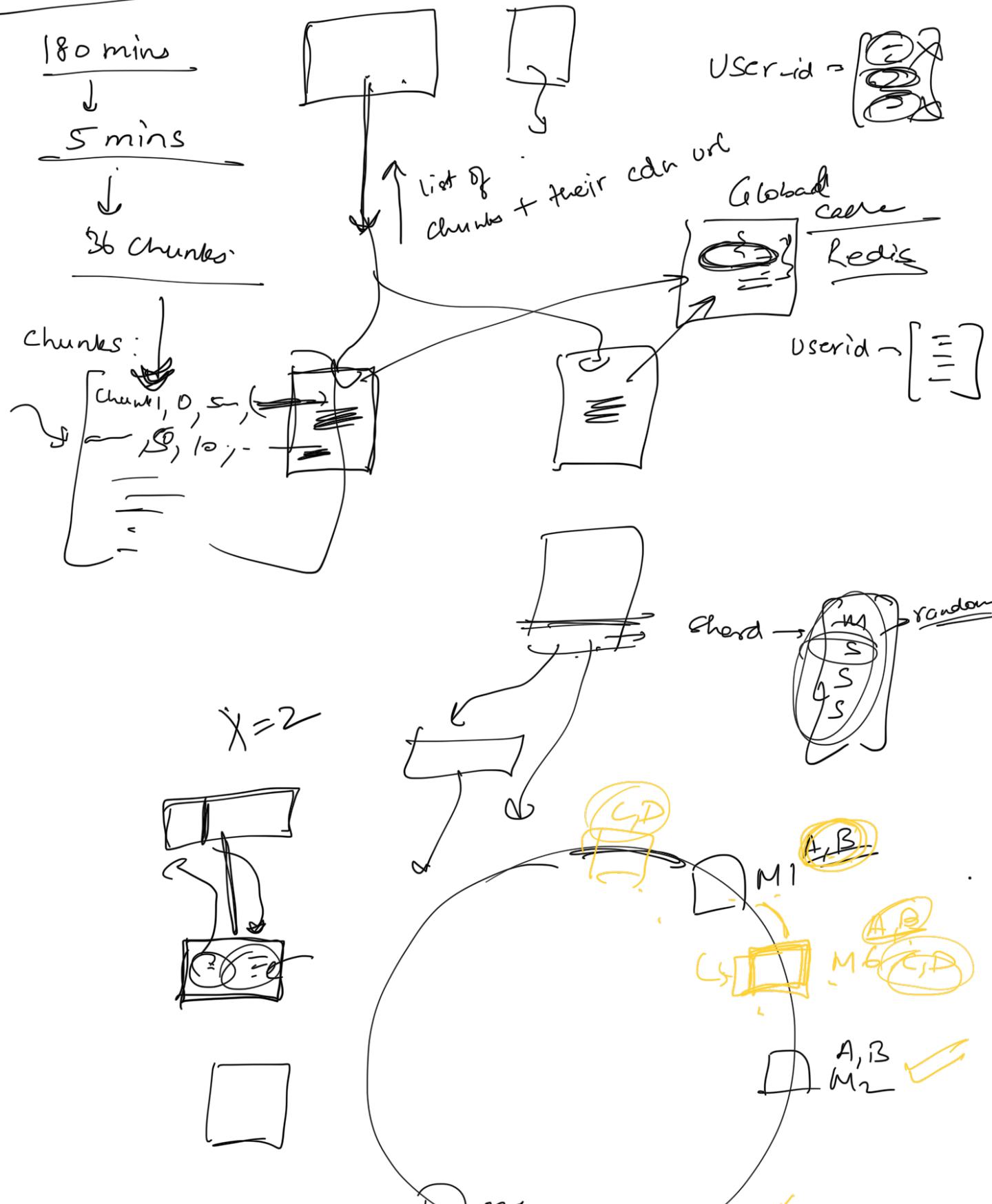
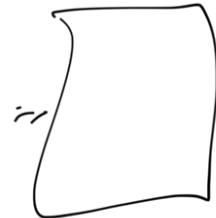
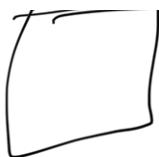
Wela



Marker







Dry  
D my  
~~my~~  
A, B

hotstar.com titles star-wars - 1 /

