

Agenda.

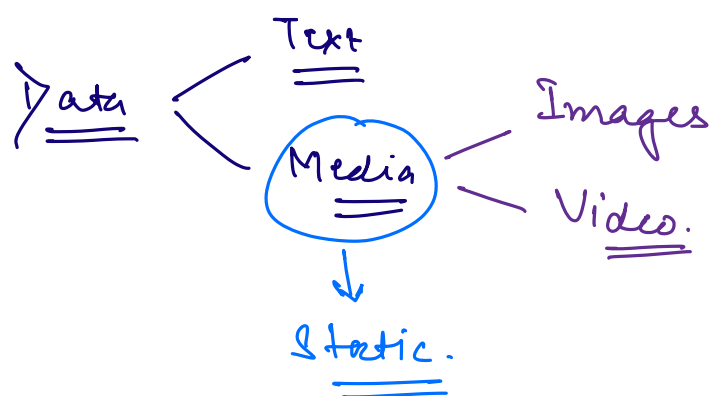
→ CDN.

→ App Server Caching

→ Global Cache

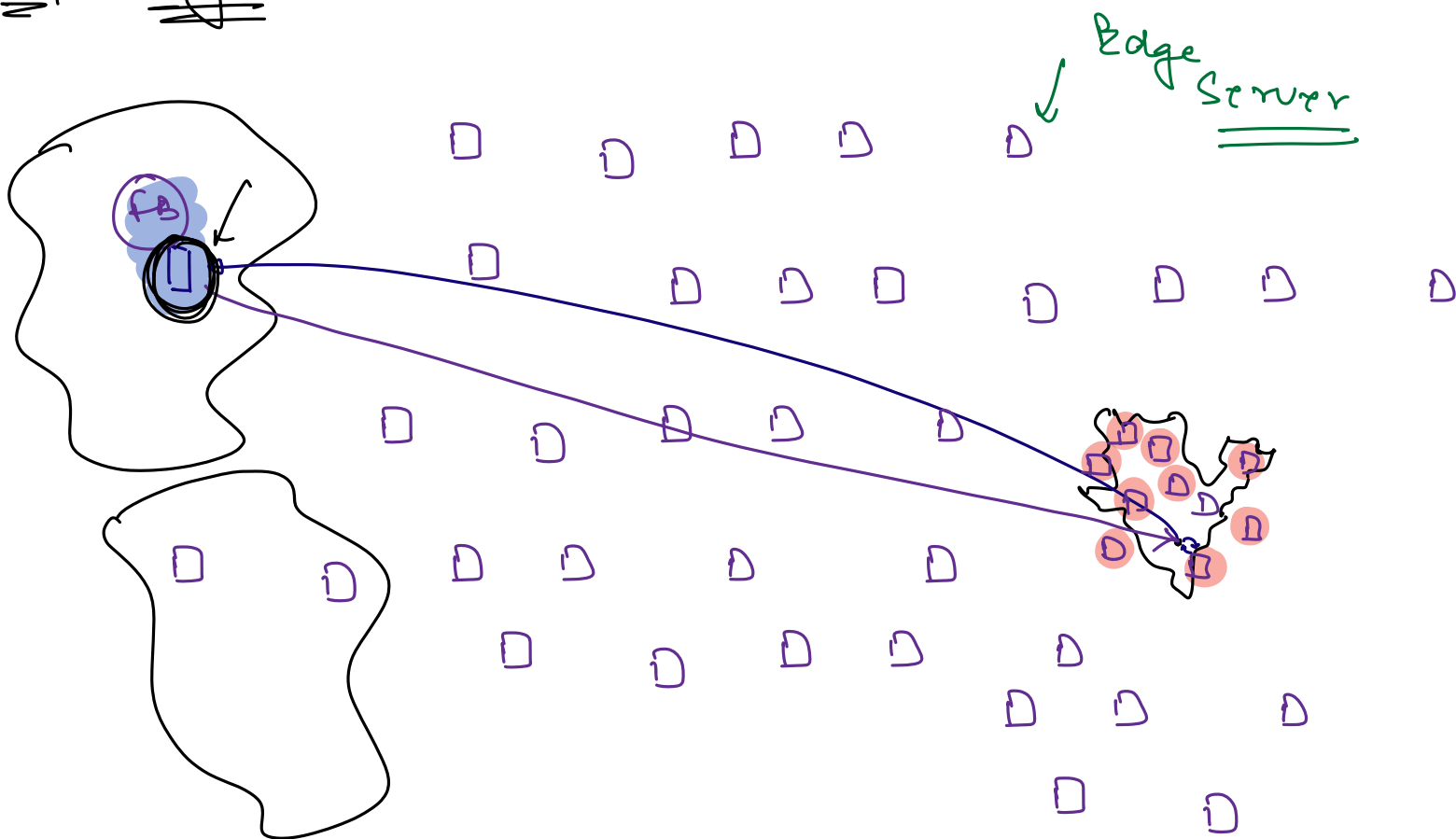
→ Cache Invalidation | Writing | Eviction.

Content Delivery Network (CDN)



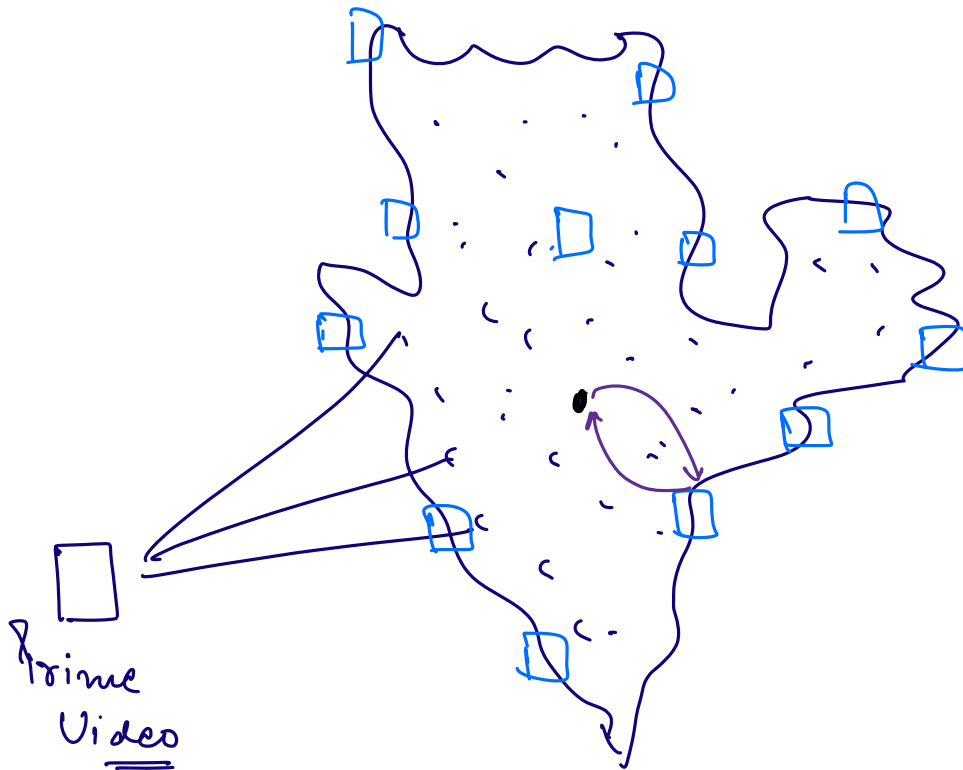
→ Akamai
→ Cloudflare
→ Cloudfront

fb | Instagram



Latency \propto Distance

1043



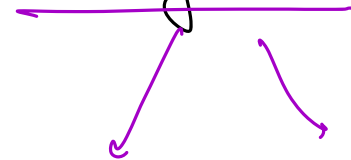
\Rightarrow fb Server

user-id
1448

fb Storage Loc
xyz

CDN Base Loc

CDN-img-172897



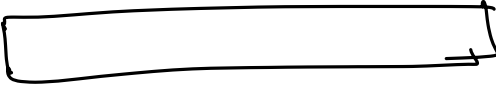
CDN

delhi	del1	blr	blr1
	del2		blr2
	del3		blr3
	del4		blr4
			<u>blr5</u>

user id

1234

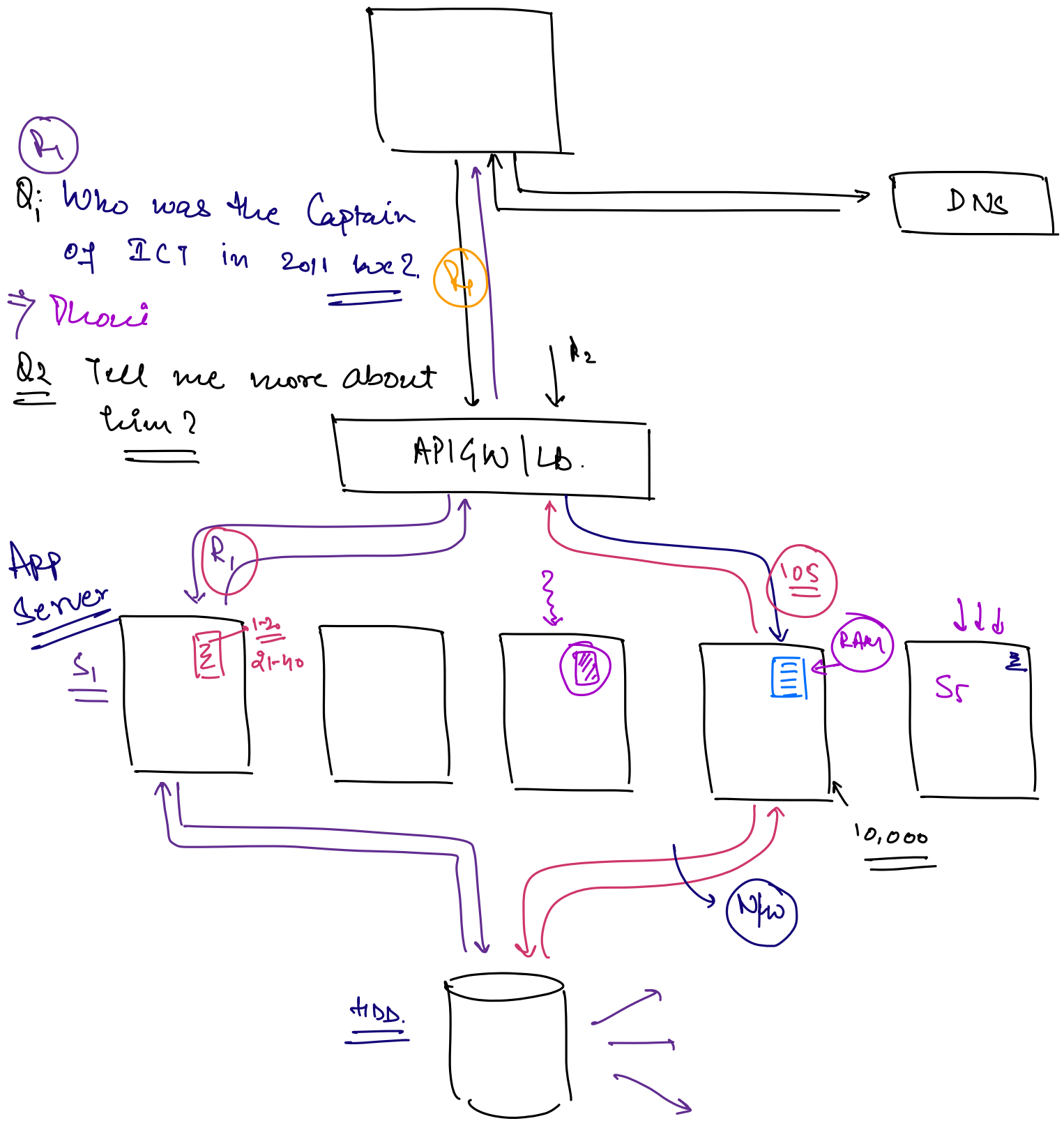
loc^A : Delhi

Content - del3 - 

Based on the
user's loc^A

(hrs) loc^A

Chapt 4 Pt.



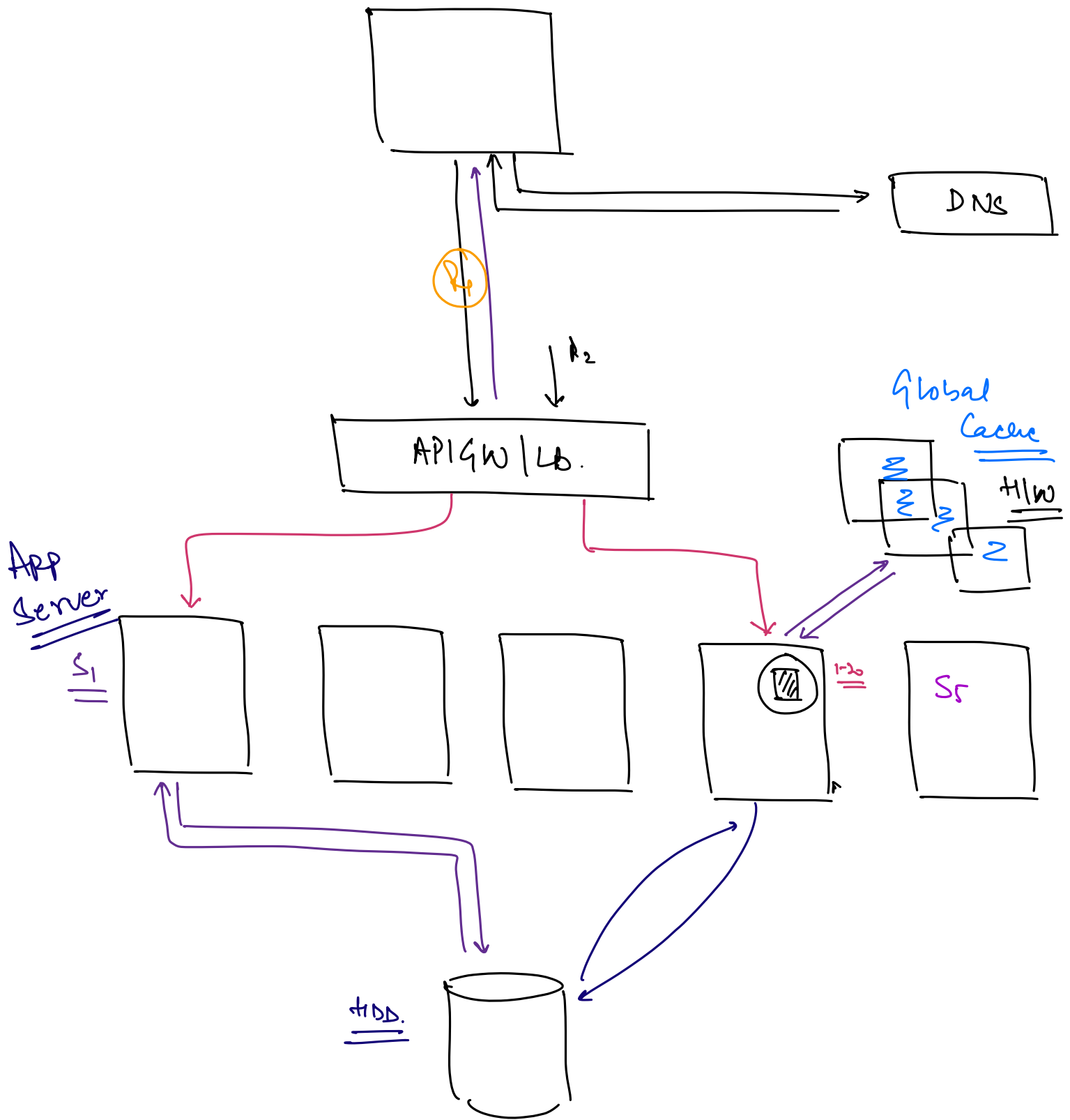
Q1: Who was the Captain of ICT in 2011 hr2.
⇒ Phone
Q2: Tell me more about him?

⇒ Extra DB call = latency ↑
⇒ Stateful | App Server Caching.

- In Browser / Client side caching.
- CDN
- App Server Caching.
- Global Cache.

Instagram.





Cache

- HIT
- MISS

Redis \Rightarrow Point Access

\downarrow

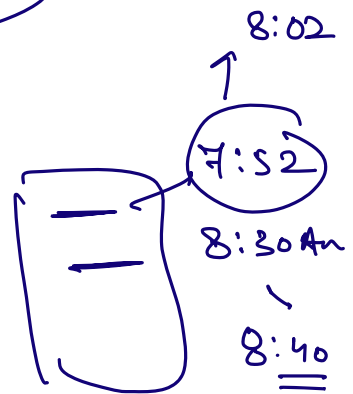
K, V \equiv HashMap

Can data inside the cache go stale?

Yes

\Rightarrow Cache Invalidation Strategy.

TTL : Time to Live



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7:00 - 9:00 AM Caching