Social Media Syskm Design (Facebook, Enstagram, Linked in)

Functional Requirements:

- 1) post (Video or Image)
- a) Add a friend
- 3) Like, Share, comment
- 4) see user's Timeline
- 5) see Friend's Timeline
- 6) Jee HomePage Timeli'ne
- 7) Activity Log
- 81 Searching

Non-Functional Requirements:

- 1) Read Heavy System
- 2) Fast Rendering
- 3) Fast Posting
- 4) Lag is ok (kinen user posts)
- 5) Access Pattern

6) Highly Available (Savandra)

Scale:

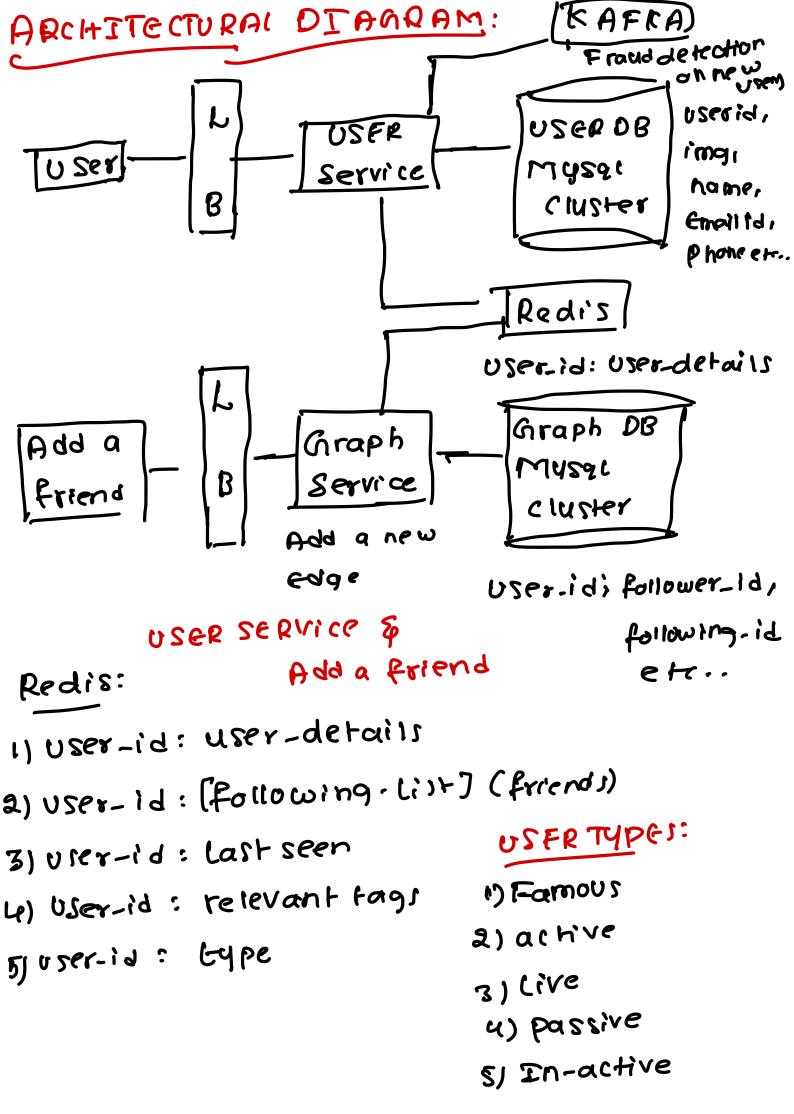
Daily Active users: 2 B/day (Momen)

Monthly Active Users: 4.5 B/month

posts per min: 200 k / min

Like per min: 500 k

Sharen: 270 k



POSTI USERTIMELINE, FRIENDIS TIMELINE, HOME PAGE TIMELING: [Kafka] To identify relevant Tas Post PASH 0 Post i ngestion d Cassandra 2621,cc d User-idi post-1d B a multi-media Short UP Service a Service C Q 23 Amazon CDN Live Post recent posts 4550 SELALGE K Serice A F user Aggregator 2201 Frome Line Carsandra K FSCY Timeline Arche Service. 26KAI,CC Home Page Post tione line Redis Processing Service Vid: Pid, Pit. 1) Fot famous forowing other user user get into vid: Pid: the Mmeline every smins [Graph service) reperant

tag

Service

LIKE; Comment, Share, Searching, Analytics:

