3/24/24, 2:32 PM OneNote

Design Twitter

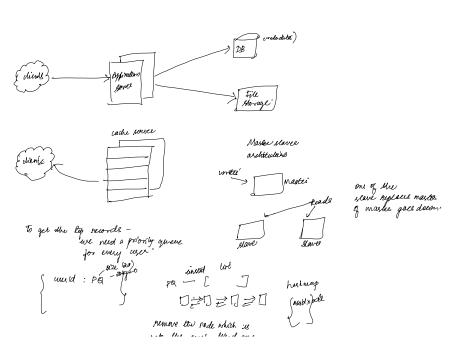
```
Saturday, March 23, 2024 2:32 PM
        FUNCTIONAL REQUIREMENTS
                                                                        NON FUNCTIONAL PEQUI PENENTS
                                                                     1. Anadable
2: Low Letency (200 mg)
3. Brentwal Consistency:
        1 Generate newsfeed
2. Tweet Chart
       3 Followers / Followee
          Tweets may combain photics / videos
Leturded Reguiro ments
        1. Share a sweet
        2. Rebuced
       3. search for a well
to Comments/ likes
             Mart have as farresty
     CAPACITY ESTIMATION
   1. Dayly active currs: 200 M

2. Post: 100 M tweet day

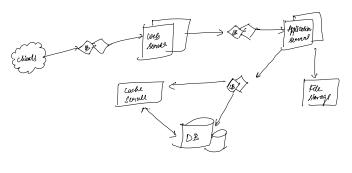
3. Check my profile 2 to new perday.

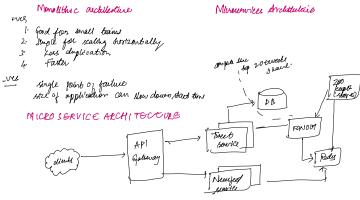
4. 3 grofulu/day I check perday (0 there) ] so entires.
 Traffic
                     100 M weds (day
200 M × (5+2) × 20
        duntes
        Reade:
                           1404200M = 28000M = 28 BILLION
                                                          , each character takes 2 bytes
             (40 characters ( devel stre) & 2 byles - 260 bylls
(100M x (250 +20) = 300 x 100M = 305B
                                 meterdata
                                  ste
     20 GB 1 265 (days) 7. tocycars = 109500 GB
Every 5th laxed has a photo — (200 46)
Every 10th lived has video — (2Mb)
         100 N daily tweet x 200 Eb = 4000 × 106 × 103 = 47B pa day.
                                  memory
of each phobo
                                        20 % 10 4 10 6
20 % 10 12
N'deas
            100M × 289 B
                                  Ξ
                                          2071
                             20+B+A+B = 24+B/duy.
                 24 TB & 365 x 10 Cyears)
  Band wedth
                                                        = 25 68/820
                      _ + <u>4TB</u> + 20TB
             30GB
            24 x60 x60
                            86400
                                             86400
```

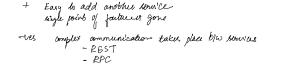
Caching:

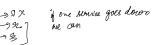


NOT ANY MORE MORE BINE



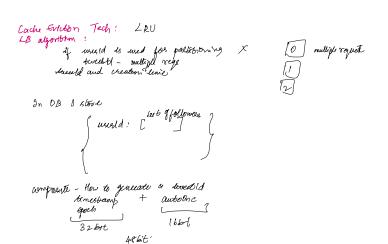






XRE

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multiple tweets can come at the same line to have It unique were autosore for current epoch. 3/24/24, 2:32 PM OneNote