TWITTER DESIGN

REQUIREMENTS

- User should be able to tweet as fast as possible
 View Tweet Timelines:
- - 1) User Timeline(UT) —> Users' tweets and retweets

 - 2) Home Timeline(HT) --> Recent Tweets from people user follows
 3) Search Timeline(ST) --> Displays results(tweets and profiles) based on hashTag(#tag) or keywords
- 3) User should be able to follow other users.
- 4) User should be able to tweet millions of followers within 5 secs
- 5) User should be able to see trends.

ANALYSIS:

- 1) On an average Twitter gets
 - 1) 500 writes/sec ie 500 ie tweets written per second
 - 2) 500K reads/sec ie 500K tweets read per second
- 2) Based on the above data/observation it is clear that Twitter is Read Heavy . Hence reads should have excellent availability, scalability and performance. The performance of writes should be good too
- 3) The User Timeline and Home Timeline should be AVAILABLE for readers always and almost INSTANTANEOUSLY. But, it is OK if the Timelines are a bit outdated ie favour Eventual Consistency over immediate Consistency