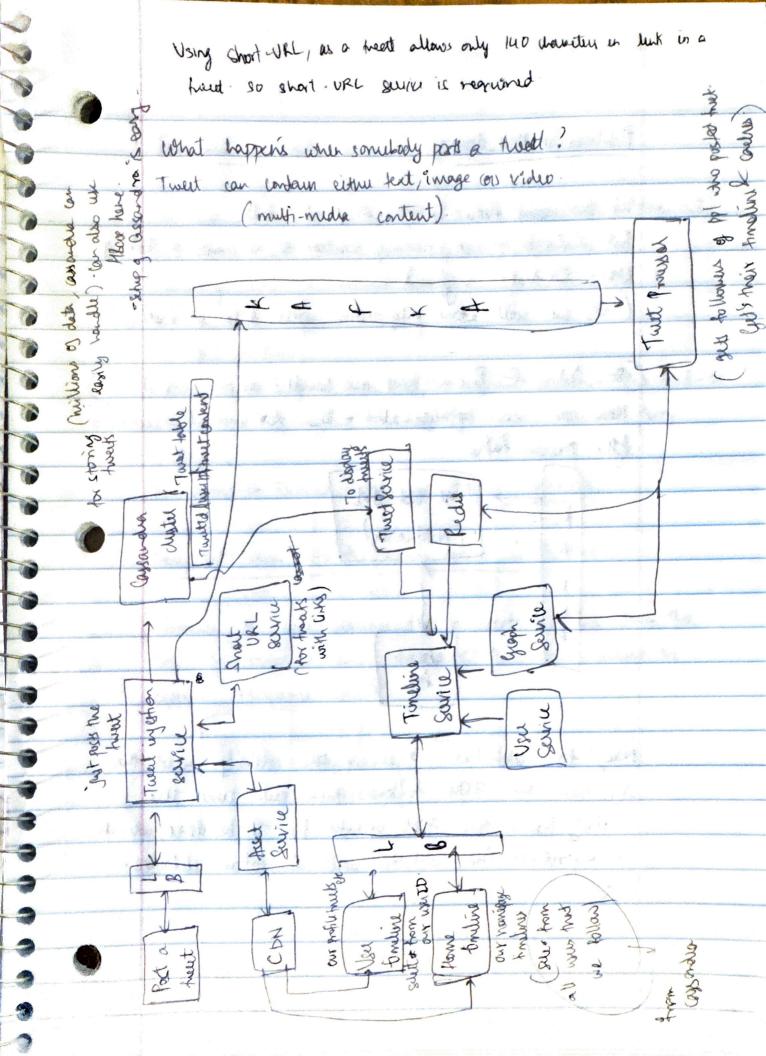
TWITTER SYSTEM DESIGN

Anna se gregor	FP.
	NFR FR
1.	
d.	2 10 h 1011
3.	2. Collans
4.	A Cont
	Sik it someon has posked a
and a second	tweet, ox to see after some etc.
S.	Sale
51	- 150 Mil. DAU
	-350 Mil. MAU
et de personale de la composition della composit	
	- 1.5 By Anomits
	- 500 Mil. tweets / day
	-5700 hveits second
	2 at peak > 12,000 heerts/second.
elektrise productive de la companya	
a de la companya de l	Vscus
all and the second second	(P. 1) hear cololing and person)
1-	Fanous (100 mos, adding, sport
2.	Active (pp) who are articuly arresing twitter)
3.	la let d'attie vivid - Vive unitari
4.	Desire autili aupura ou me no
	Inactive & deleted accounts. (usually they are soft deleted)
> •	yrva.rv

3 Hows Use onboarding How Twenting How Analytica flow Whenever we are designing read-heavy systems we have To precompute bots of things (or) use rache for better performance (so that there is low latery).



homosper is across that there of but Problems in this design We are using Redu to stone so much data. But Redu is an in-numbry solution so use need a hat of 6 RAM: So, that's inefficient. (so, we will stone only active users data in Redis) 6 (So tetive & fascin was an handled as per our design).
How can we optimize all of this tor our like was 300 Car will After previous Kalka > /Line Wobsaket 1 (Noth Cation) USU C E 9 Now, for celebrities -> say if the celebrity thereof then 9 say then are 75M to llower. Then each time the C allebrity tweets then 2011 updates has to be done which is impracted. And celebrities will also tollow celebrities. Su,

a of the a national can play with their a second the law much

Fan- out on weste

When a user goods a freet, the system immediately "fans out"
that tweet who the timeline of every tollower.
Usually used for normal usels-

behand by granging for tweets from all account they follow.

This approach is used when we follow celebrities.

Now, Let's dim into the search option in Twitter

Whenever a use seawher for a certain fivest, then the feet is scarched and displayed the next based on certain relumence score.

