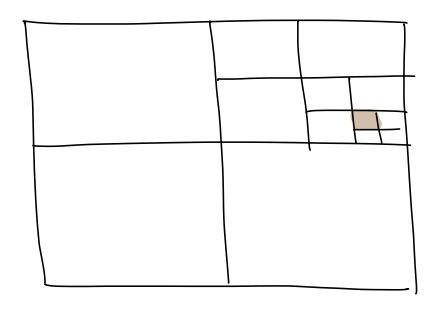
Agenda.

-> Quad Tree verap.

-> Uber.

# Size of the Quad Tree.



Size of the guad tree = Quad tree cells + Places of interest.

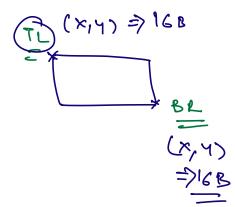
(00 M

Place: id/name (type/lat/long J J J J 8B SOB 4B 8B 8B

100 Mx 100 Bytes.

10000 MB => 10 GB.

100 Bytes.



I place
of
Interest
Per cell
U
100M cells.

100 places

of
Inferent
Per cell

100M => IM Cell.

On an aug, encry cell & 20 places of intrect:

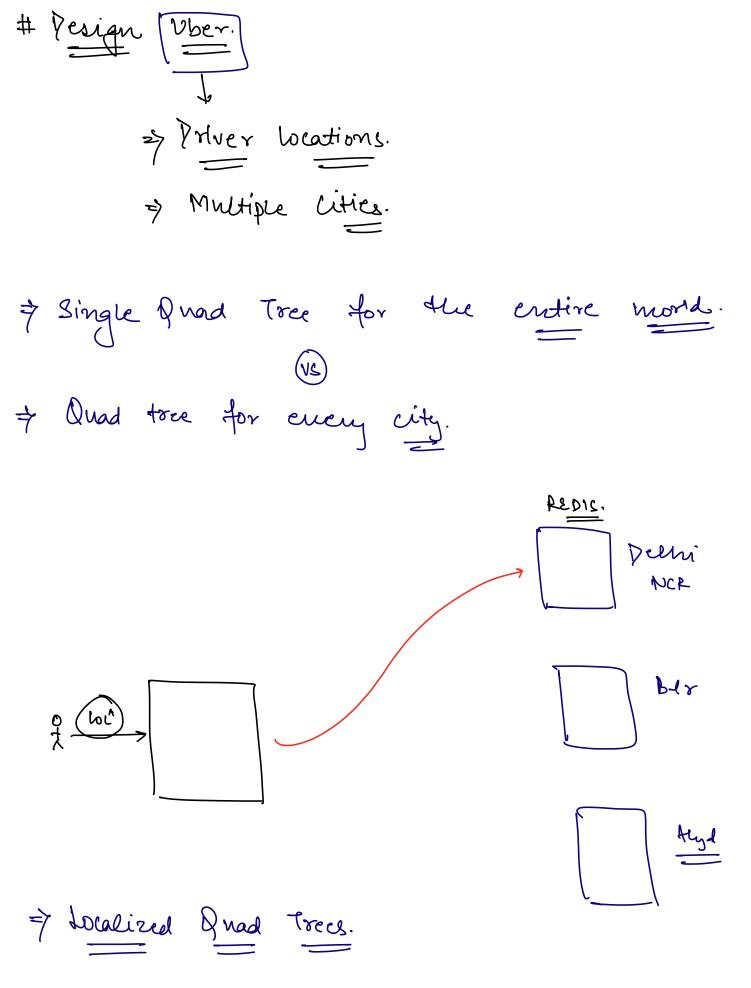
# of rus = 100 M = 5 M

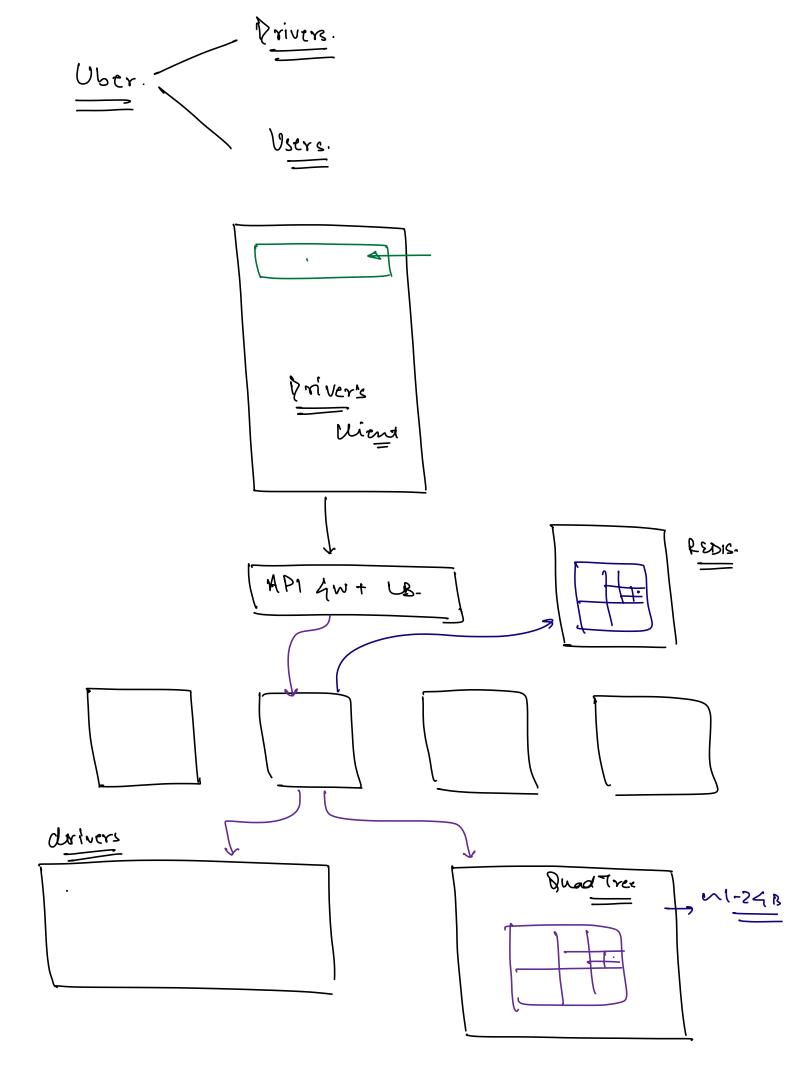
SM x 32 Bytes.

50

160 MB.

Total Size of the Quad tree = 10 GB+ 160MB = t1 GB.





Ť	Uber	หนับ	first	pre compute	the	gnad	Tree
	for every		rgion.				
				م ما الماء ا	-1 A	4101	la est

7 Uber mill have different databases for storing different types of data like neers data, drivers data, Grad tree etc.

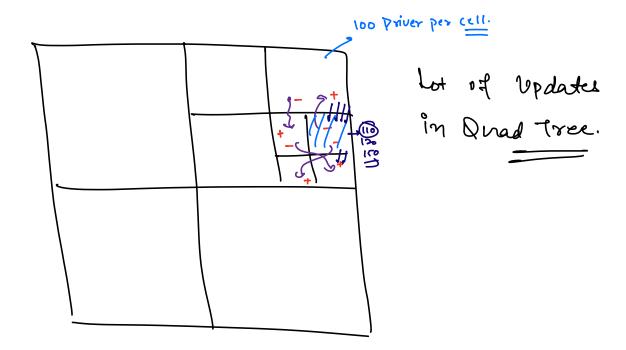
-> Quad Tree: Current loch of the Priver.

-> loc' thistory.

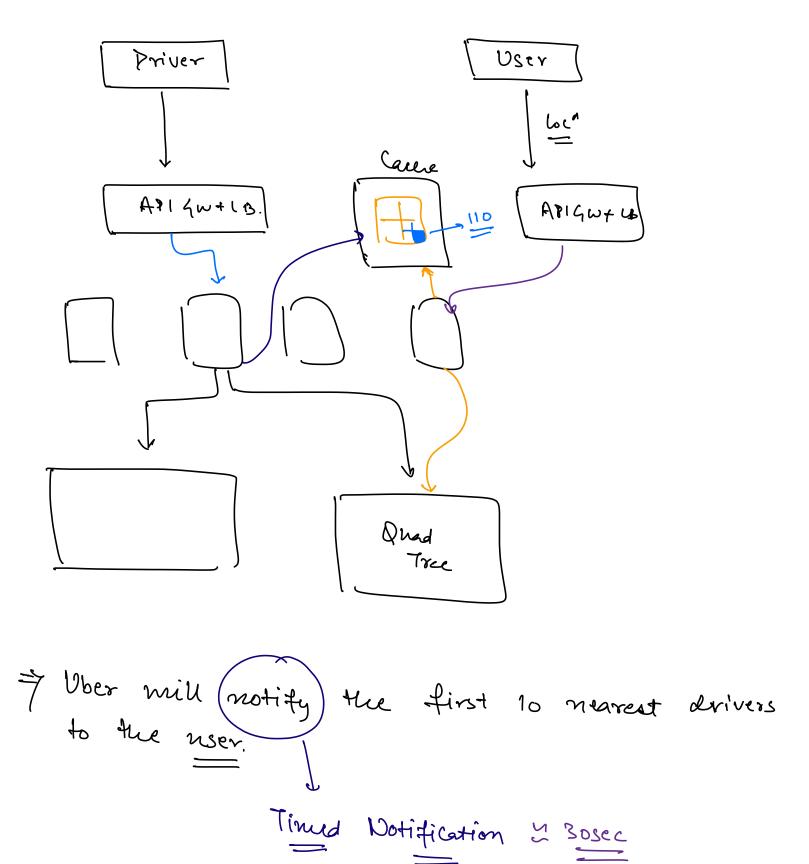
L. NOSQL. (TimeSeries DB)

- Usrr's DB.

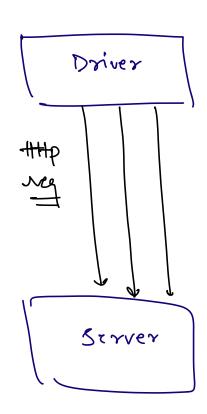
Forivers will keep on sending their live location to the Uber backend after every I min, then Uber updates the location of the Triver in loc DB and Quad tree as will.



Whenever driver changes the location, User needs to update the location in the Quad Tree but division | merging of cells can happen in batches.

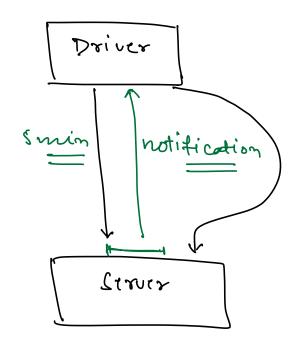


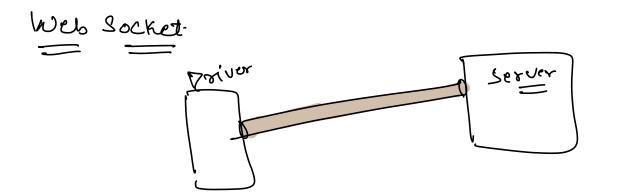
Polling: Erluer heeps on making constant request to the Backend to check if there's a ride available for them.



Long Polling.

Happ Reg Response mith timeout-





Amount of resources for long poling mill be less than Web Socket connection.

