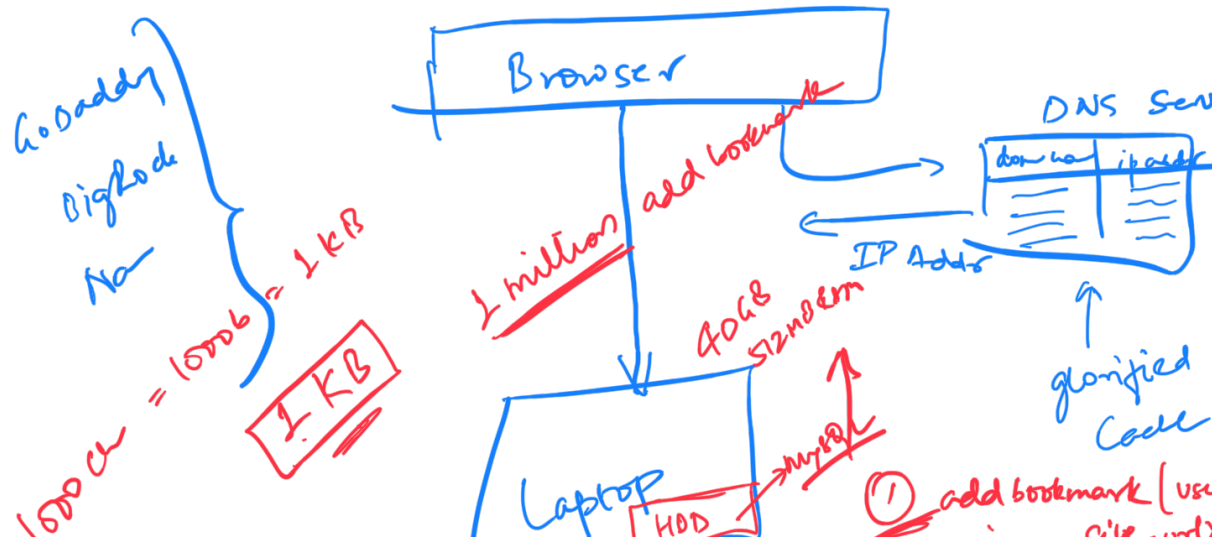
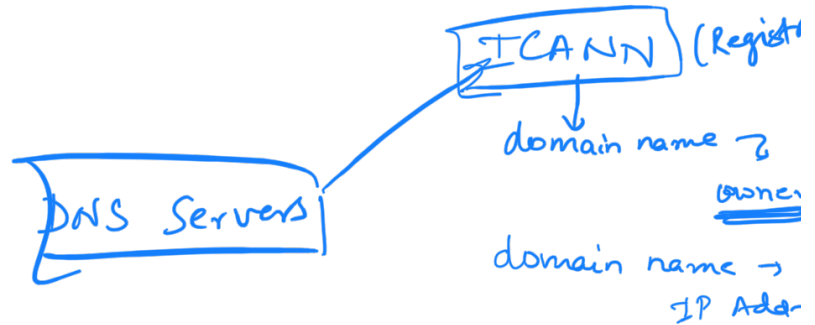
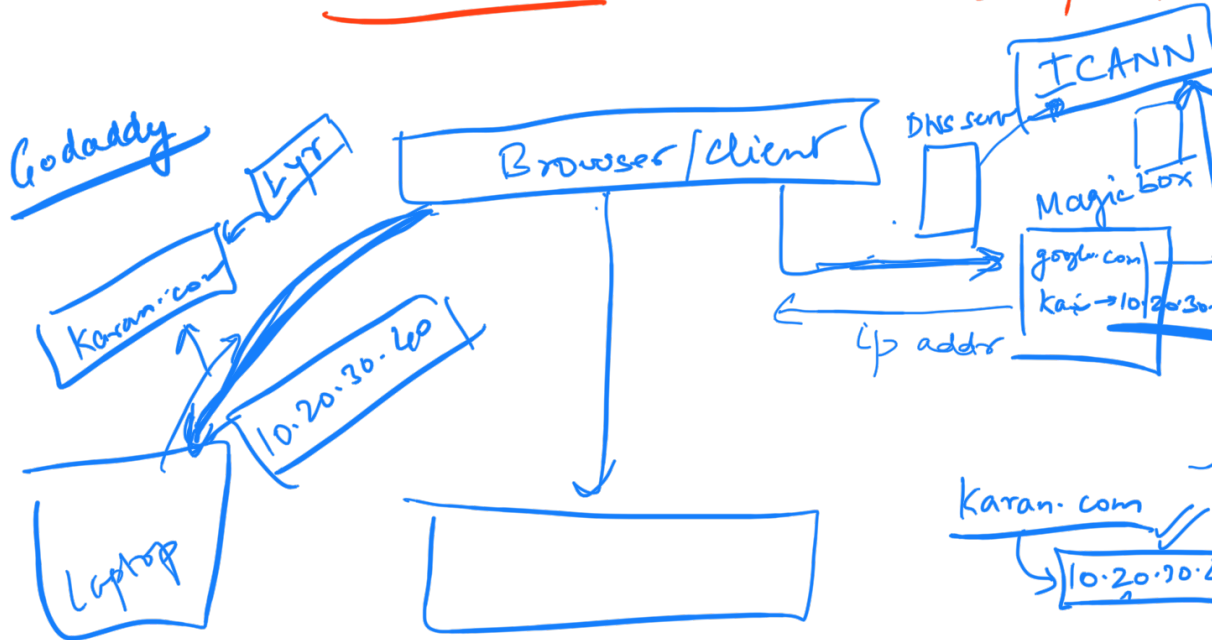


HLD-I

Delicious.us → userId → [Site1, Site2, ...]



② get bookmarks (used)

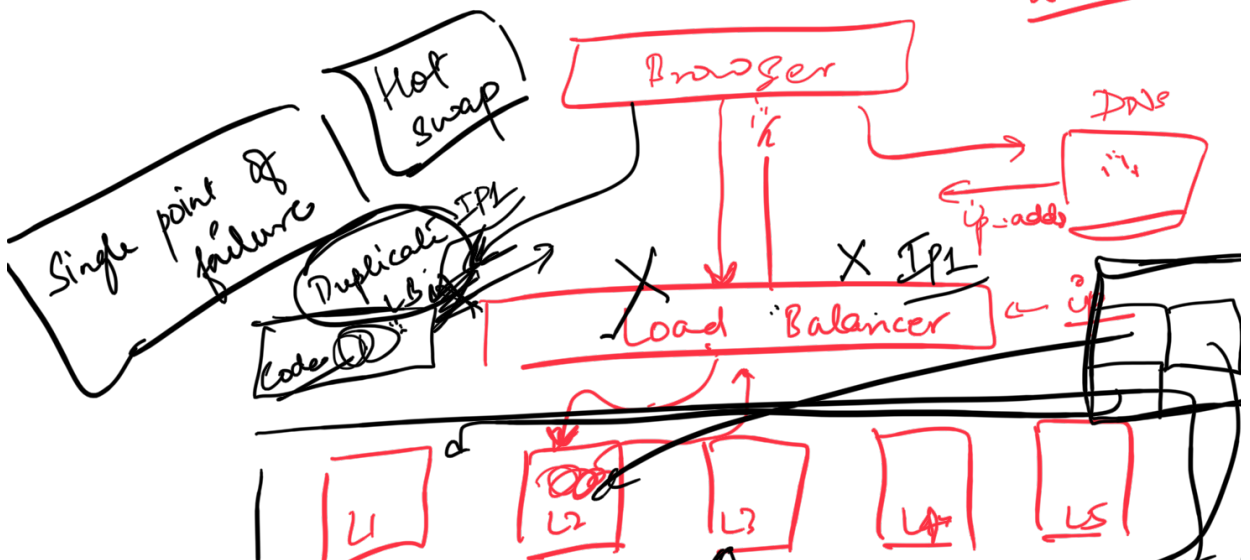


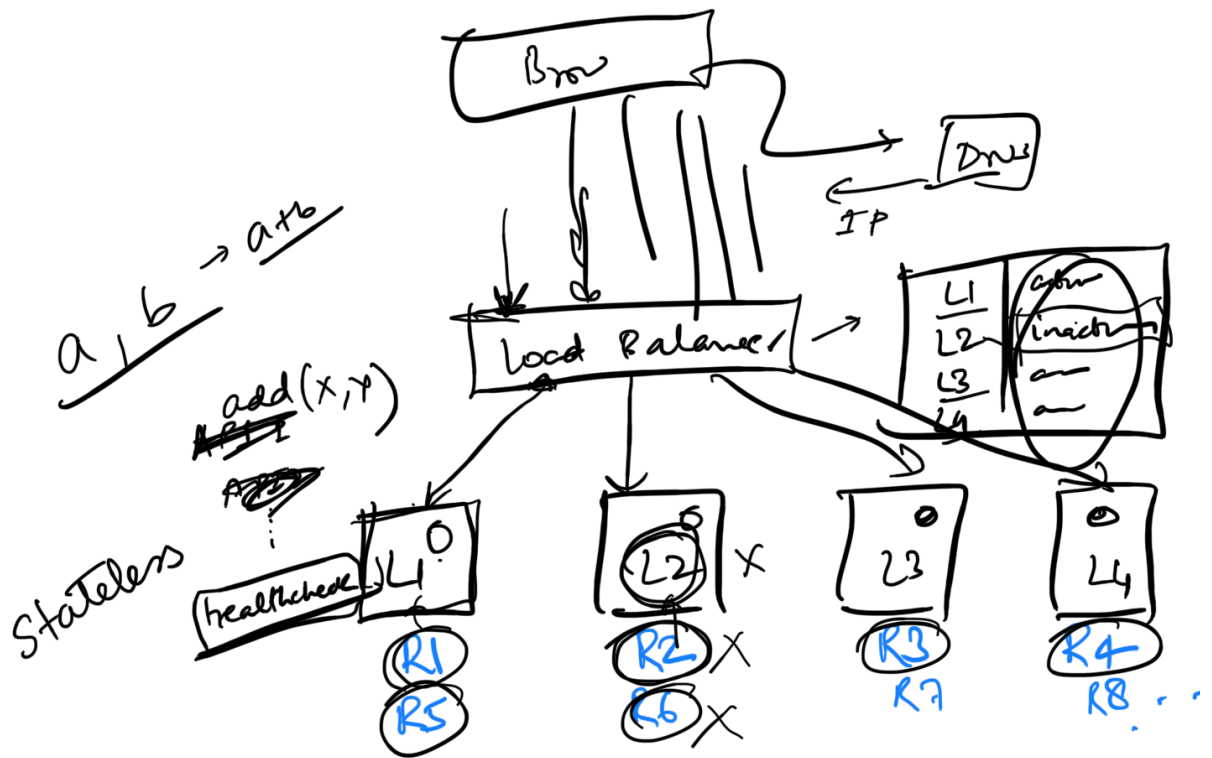
Vertical scaling

$$\frac{40 \text{ GB}}{40 \text{ days}} \rightarrow \frac{100 \text{ GB}}{100 \text{ days}}$$

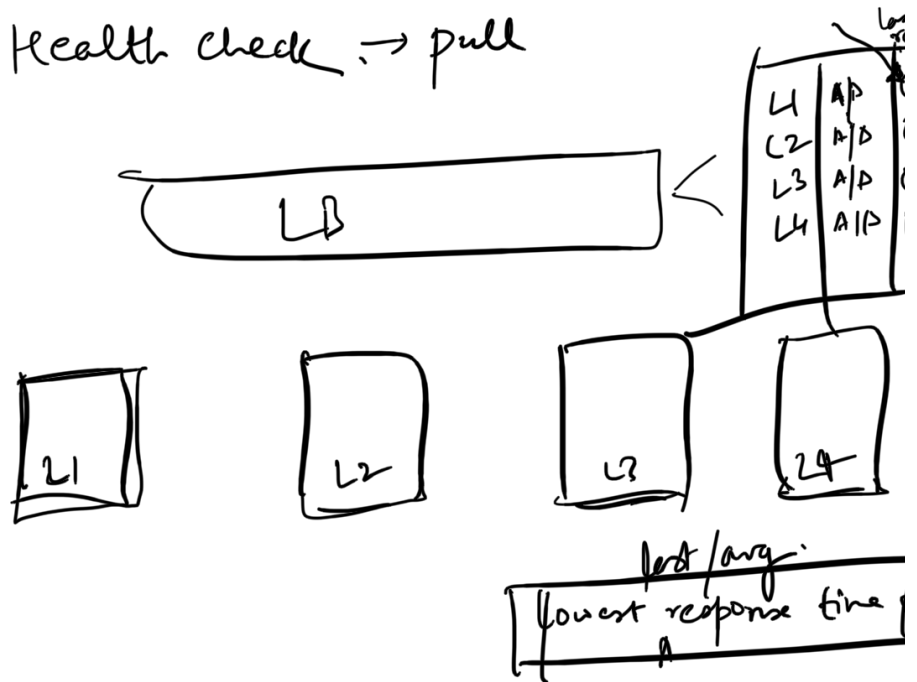
② Add more laptops

AN \rightarrow ip

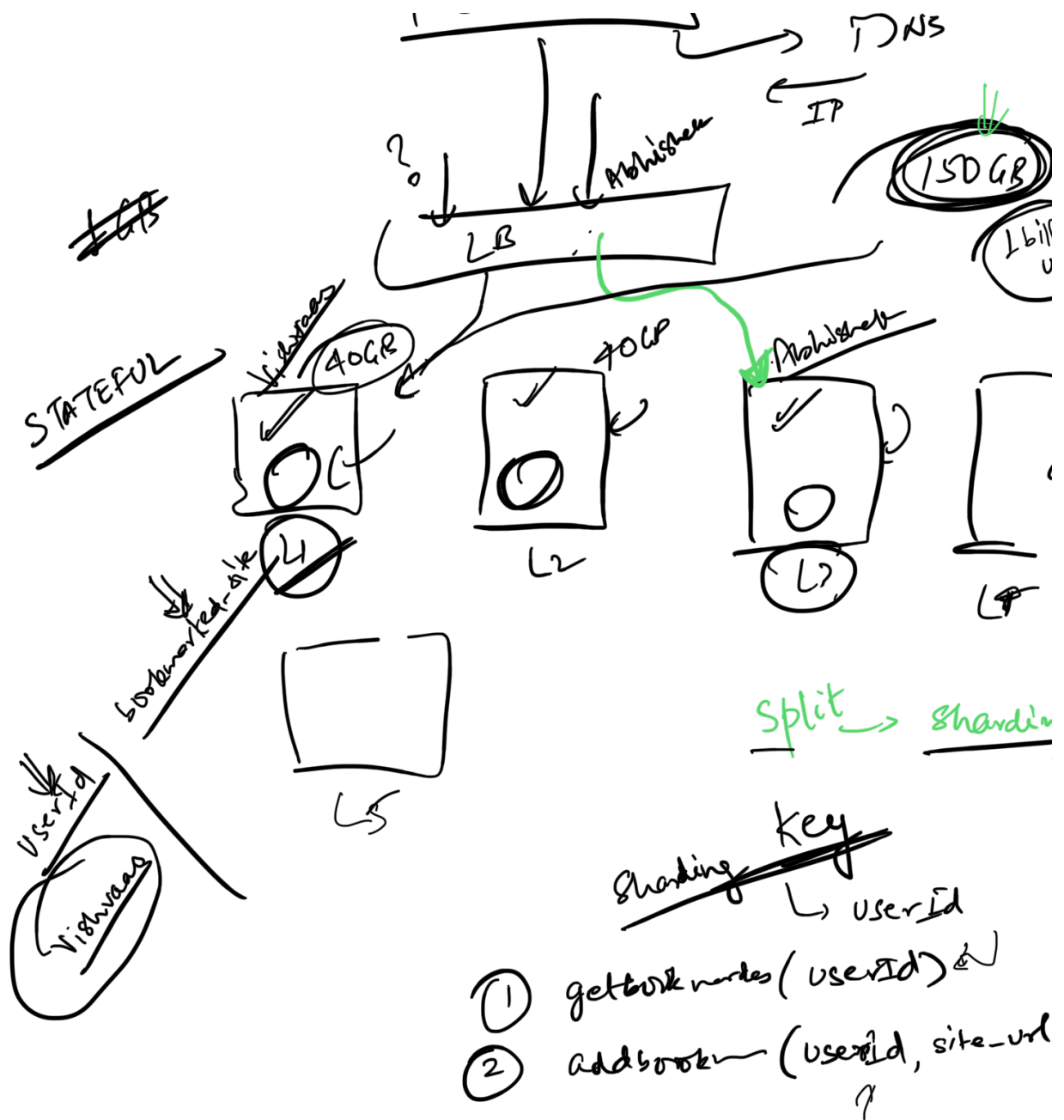




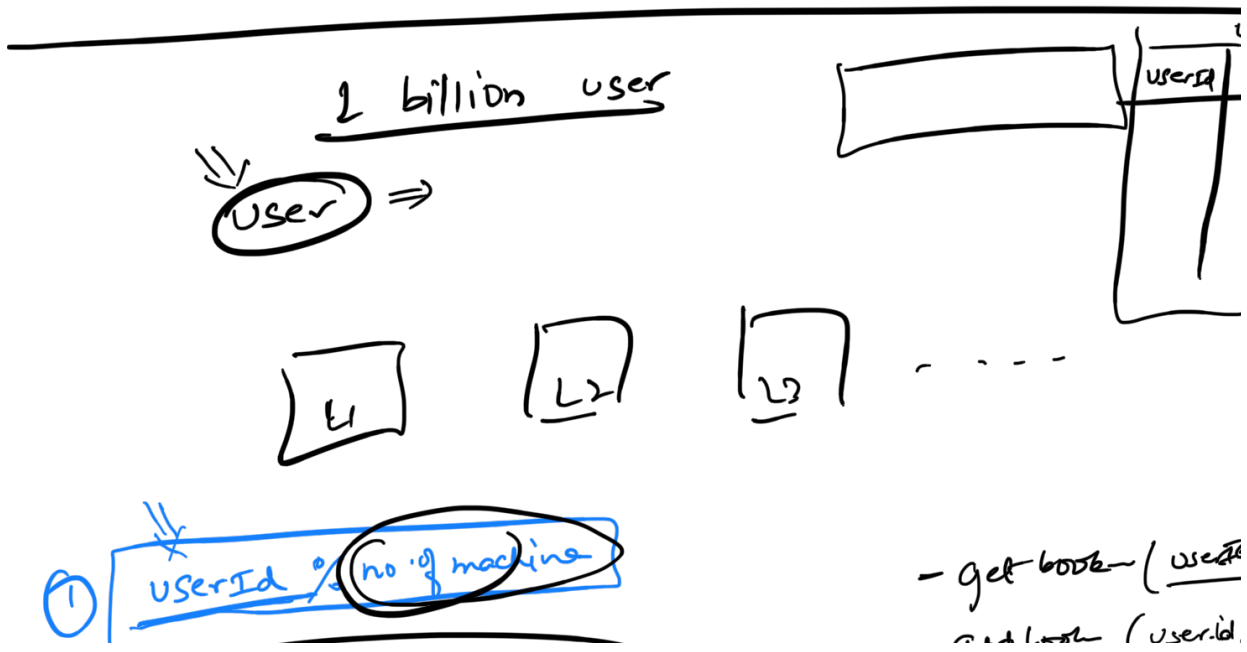
- ① Heart beat → push Pull / Push
- ② Health check → pull



Client

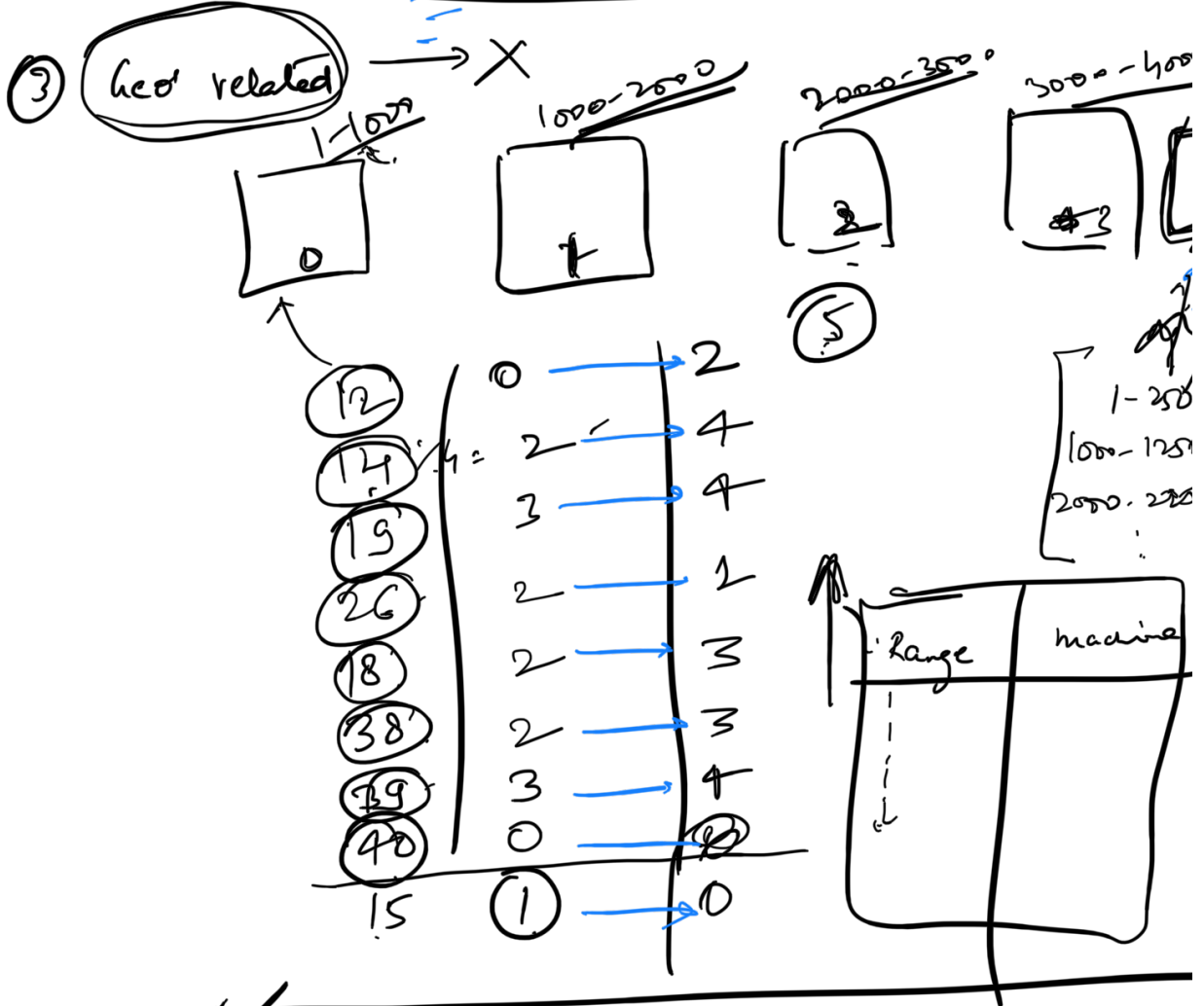


- ① getbooknodes(userId)
- ② addbookmark(userId, site-url)



② Range 1-1000 L1
1001-2000 L2

- user - site



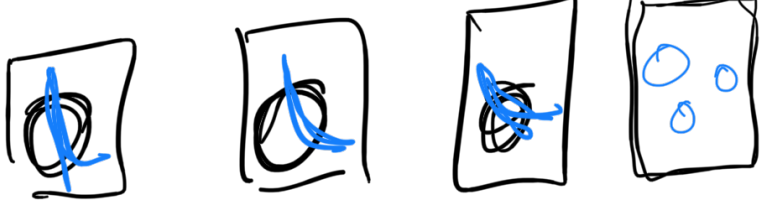
~~Requirement~~

① LB

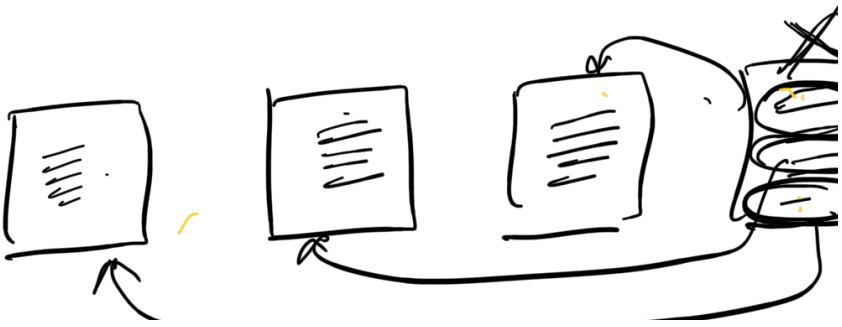
User Id → machine

less memory
less CPU

②



③



Consistent Hashing

