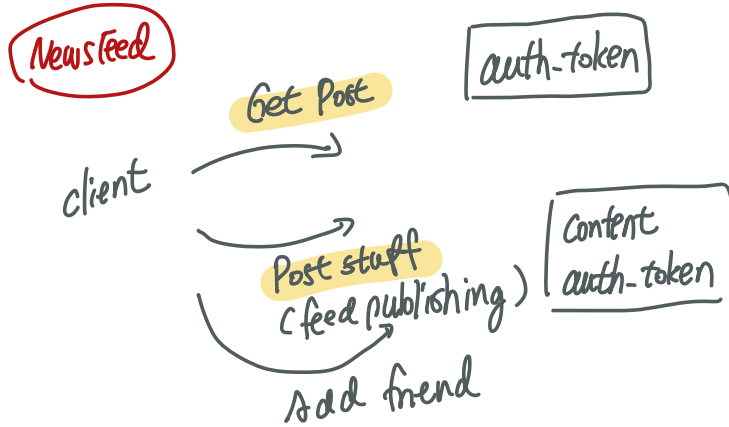
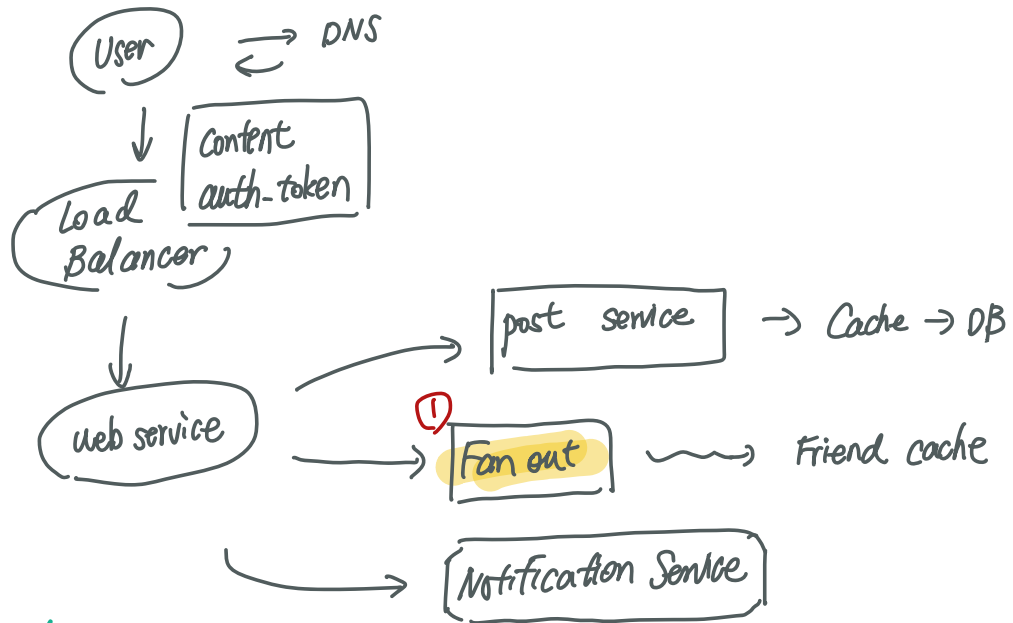


Features:

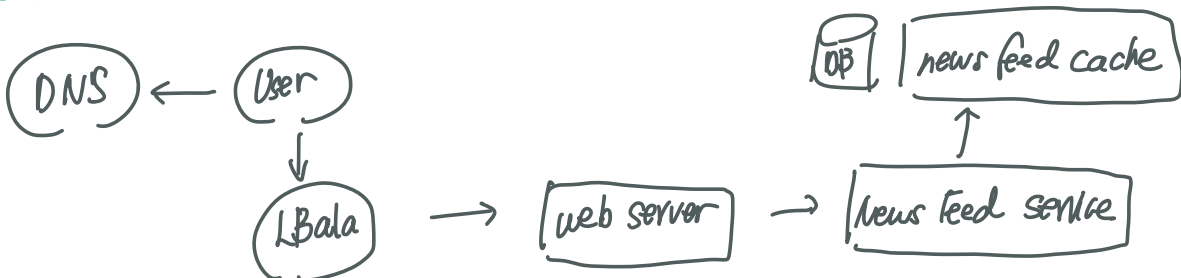
- 1). feed publishing: write into cache database  $\Rightarrow$  populate to friends
- 2). news feed building: aggregate friends' post in reverse chronological



1). Feed Publishing:



2. News retrieval



① Fan out: Deliver post to all friends.

- Fan-out on write: publish 以后立刻 publish
- Fan-out on read: read 时再 generate

In the world of message-oriented middleware solutions, **fan-out** is a messaging pattern used to model a model an information exchange that implies the delivery of a message to one or multiple destinations possibly in parallel, and not halting the process that executes the message to wait for any response to that message

• Fan-out on write: publish 以后立刻 publish

Pros: 好处是 push 快

Cons: 如果人很多, 就慢得不行了.

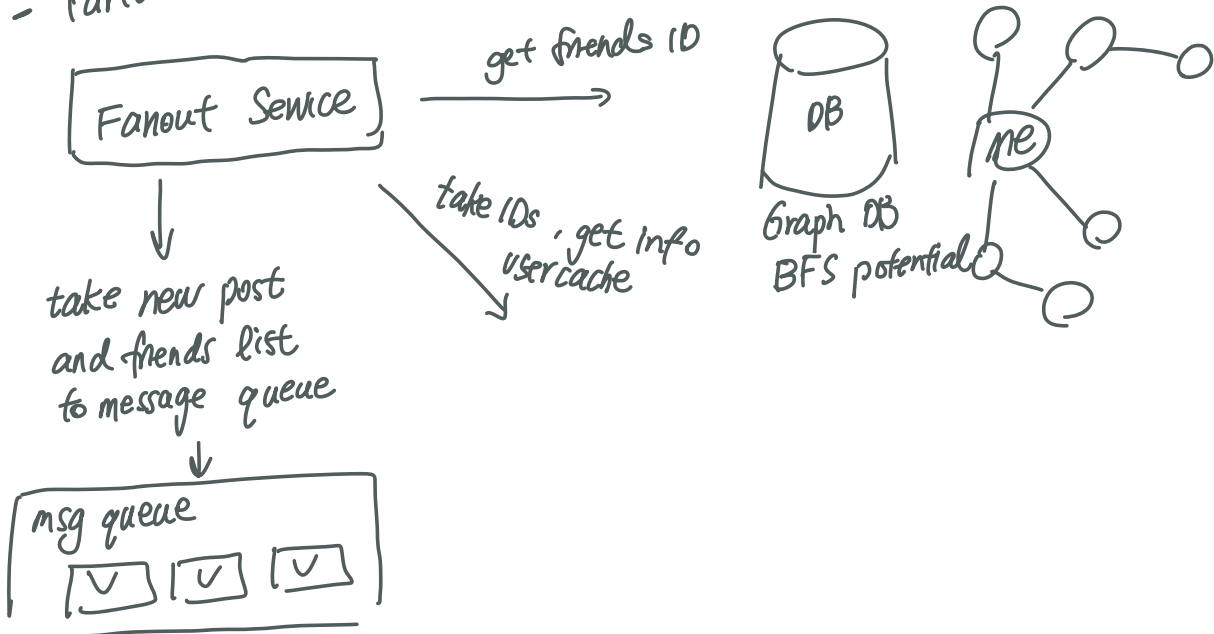
• Fan-out on read: read 时再 generate

- Pros: if there's lots of inactive users, this saves compute resource.
- Cons: you have to fetch it upon querying

Big Q. how mix them?

For celebrity users use  
- Fan out on read.

For normal user:  
- Fan out on write.



↓  
worker can look like  
post-id, user-id  
post-id, user-id

Can be elaborated.

\*  
work append  
id into this.

News retrieval:

