

Nano twitter 0.2

1. What is done

1) This version includes login/logout/register and homepage display.

2) Since the author doesn't think cookies are secure enough and also considers sessions not good for scalability and will occupy too much memory on the server, the login/logout functionality is implemented by the access_token principle.

3) By login, the user can get an access_token from the server by providing his username and password.

Then, all other interaction with the server is authenticated by the access_token.

4) Access_token contains information like user_id, time to expire and so on. The client side cannot decode the access_token. It is encoded on the server side with a Token Secret by "HS256" hashing algorithm.

5) Designed a simple HTML page for logged-in users' home page. Generate the home page timeline by querying on three models.

2. What problems I have encountered.

1) At first, I wanted to persist the access_token in the localStorage, but I couldn't find a way to add it to the request header when sending requests by typing in the URL field. So I used cookies instead.

2) I think the current logic is too complex for querying the home page timeline. Although it looks simple with only one line of code, but SQL is really time-consuming, so I'm trying to figure out a way to optimize this specific

query, maybe separate it to another single service and do some optimization based on cache.

3. Attention

My teammate and I are working on separate branches and the master branch is only for big, stable, already tested, version update. So there may be a little latency to see changes on the master branch.