computing platform for
REAL TIME SOCIAL MEDIA APPLICATIONS

made with all of the love in the world by
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with special thanks to the endless patience of
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SO MANY FEEDS, SO MANY INTERESTS. HOW TO ORGANIZE THEM?
GATHER 'EM AND FILTER 'EM!
WHAT NEEDS TO BE DONE TO BUILD SUCH A PLATFORM

OBTAIN THE USER’S FEEDS
...we need something to process, right?

APPLY SOME DATA PROCESSING TO THESE FEEDS
...to filter the feeds smartly

DISPLAY THE RESULTS OF THE DATA PROCESSING
...so the user can enjoy
So we want our platform to look like this:

- Services
- Data processor
- Storage
- Front end
TODAY WE WILL FOCUS ON HOW TO OBTAIN THE FEEDS
NAIVE APPROACH: ASK FOR USER NAME AND PASSWORD

...BUT THIS IS BAD. SO...
WANT: GET THE USER’S FEEDS WITHOUT GETTING ACCESS TO HER USER NAME AND PASSWORD

THE OAUTH 2 PROTOCOL IS A GREAT WAY FOR DOING THIS.
IDEA OF THE OAUTH 2 PROTOCOL

GIVE THE PLATFORM A KEY THAT CAN LET IT ACQUIRE THE USER'S FEEDS WITHOUT HER NAME AND PASSWORD
HOW OAUTH 2 WORKS

1) PLATFORM DIRECTS USER TO SERVICE

2) SERVICE REDIRECTS USER BACK TO PLATFORM WITH AUTHORIZATION CODE

http://mywebsite.com/auth?code=HELlO
3) PLATFORM SENDS REQUEST FOR ACCESS TOKEN TO SERVICE PASSING IN AUTH CODE

https://www.linkedin.com/uas/oauth2/accessToken
?grant_type=authorization_code
&code=HEllO
...

4) SERVICE GRANTS PLATFORM ACCESS TOKEN

{"expires_in":5184000,
  "access_token" : "bingo"}

5) PLATFORM REQUESTS SERVICE FOR USER’S FEEDS USING ACCESS TOKEN

https://api.linkedin.com/v1/people/~?
oauth2_access_token=bingo

6) PLATFORM GETS USER’S FEEDS
OAUTH 2 CANNOT EASILY BE BROKEN

AUTHORIZATION CODE PROTECTS THE ACCESS TOKEN.

ACCESS TOKEN AND AUTHORIZATION CODE ARE HARD TO GUESS BECAUSE THEY ARE LONG

128^50 possible values

"... to make your day even better, the actual values of the tokens are sparsely distributed"

"I make sure the access token doesn't go through the user's browser"
LET'S GO OVER WHAT WE HAVE LEARNED

because I want cookies now
RECAP

FILTERING SOCIAL MEDIA FEEDS IS THE PROBLEM WE ARE TRYING TO SOLVE
GATHER 'EM AND FILTER 'EM!

OAUTH 2 IS A WIDELY USED AND RELIABLE PROTOCOL FOR OBTAINING DATA FROM SOCIAL NETWORKS
NO NEED TO ACCESS USER'S NAME AND PASSWORD!
That's all Folks!
QUESTION TIME!
WHAT ARE YOU WAITING FOR?
... give credit where credit is due.

Slide 2: http://www.neocloudmarketing.com/are-you-feeling-social-media-overload/


    http://icons.iconarchive.com/icons/oxygen-icons.org/oxygen/256/Actions-view-filter-icon.png

Slide 7: http://sophosnews.files.wordpress.com/2012/03/facebookcartoon.jpg?w=250&h=250&h=250


    http://idyeah.com/blog/wp-content/uploads/2012/03/no-password.png


    http://www.hdwallpapers.in/walls/galaxy_universe-normal.jpg
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