

 Intro.md

Side Project Forum

This is a forum built with React, SASS and CSS, Socket.io, Express, MongoDB. Data for demo is generated by python scripts in /forum/scripts folder.

I have deployed the website on <https://forum.htchenlisa.com/>. I have also set up CI/CD pipelines with Jenkins on my server. I pair-programmed some parts of the project with [another classmate](#) and had some teamwork experience.

Check it on

Github: <https://github.com/owlhtchen/forum>

Deployed website: <https://forum.htchenlisa.com/>, you can login with email [w@w.com](#) and password w. I have registered accounts with email matching regex `regex ([a-z]{1, 5})@[a-z].com` and corresponding password `[a-z]` for demonstration purpose, e.g. you can login in with:

- email [w@w.com](#) and password: w
- email [ww@w.com](#) and password: w
- email [www@w.com](#) and password: w
- email [www@w.com](#) and password: w
- email [www@w.com](#) and password: w

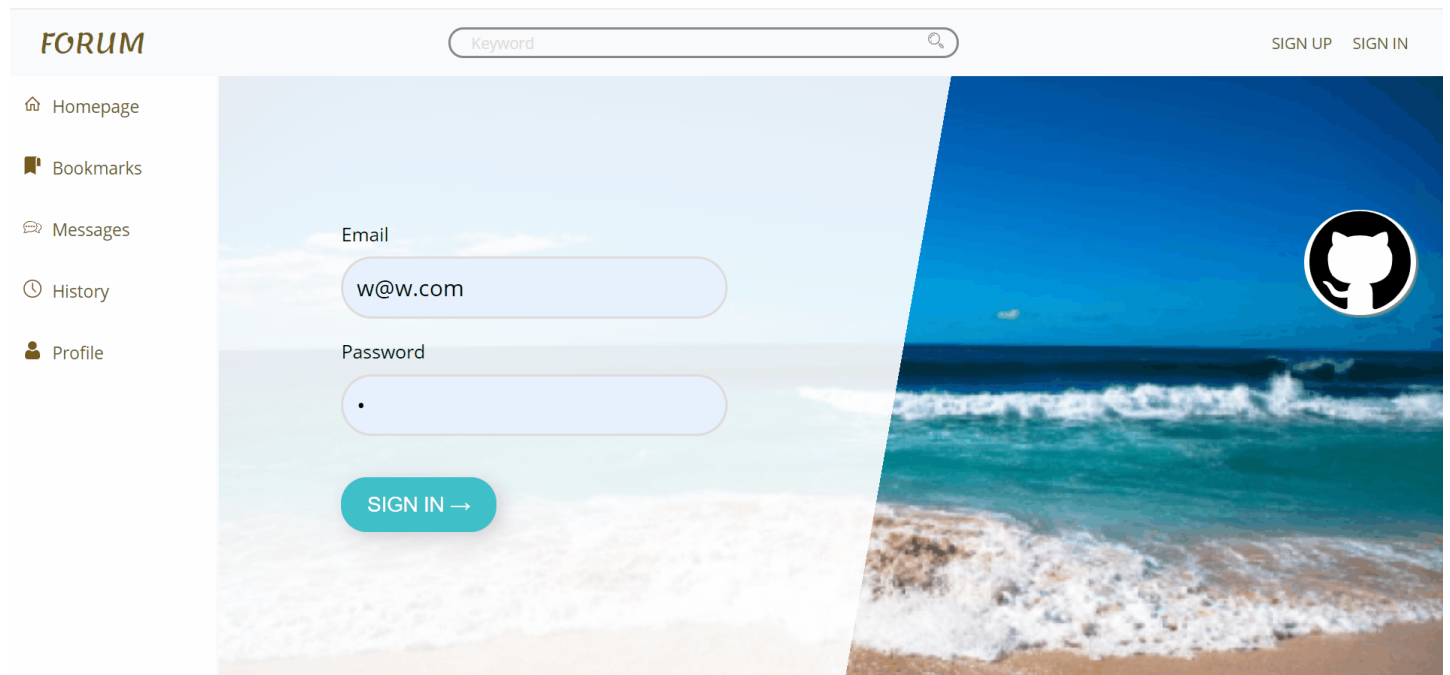
Substitute letter 'w' in the examples above with any letter from a to z should work as well.

The following pictures are gifs on github README.md. If possible, read the following content on <https://github.com/owlhtchen/forum/tree/master> for better experience.

Features

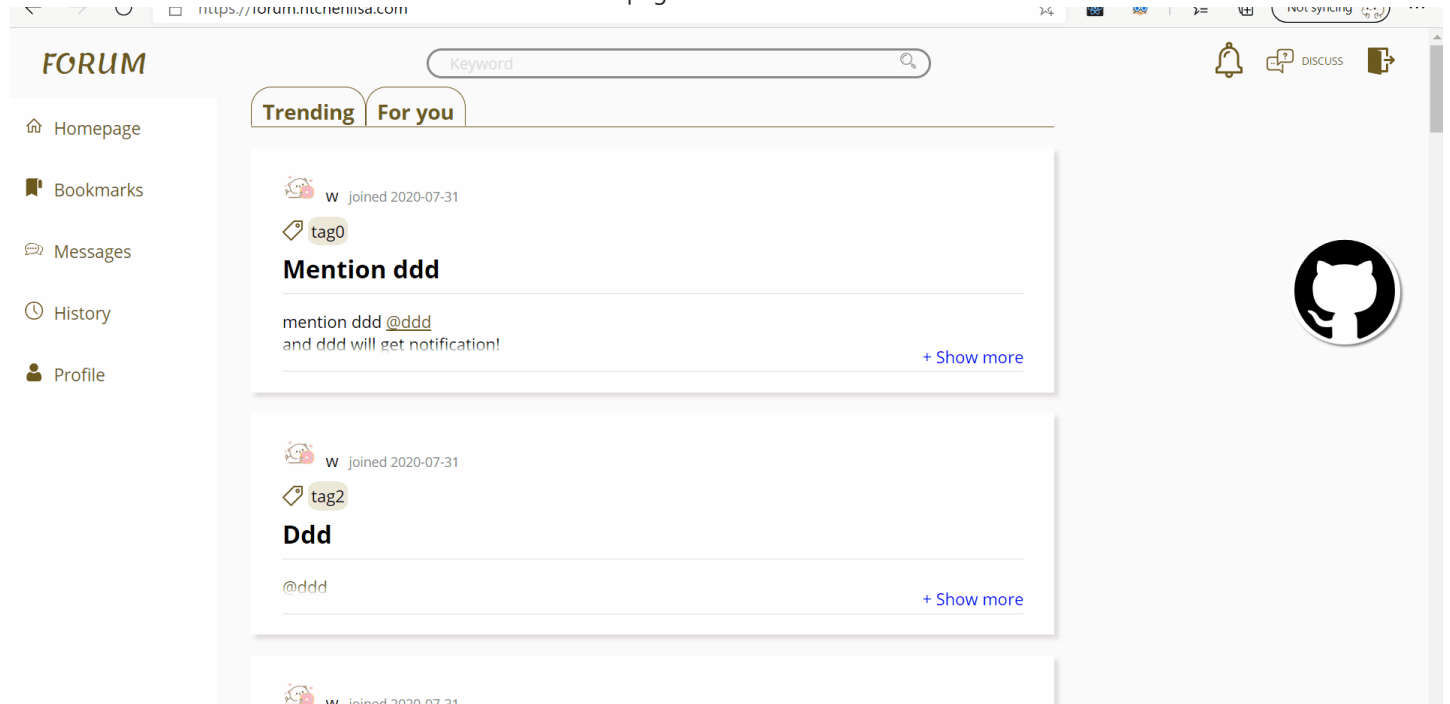
- Sign In

Sign in with email and password. After signing in, you will be redirected to your profile page with your bio and timeline of post/comment.



- Search for user and follow this user

Follow user and see their timeline in 'For You' tab in homepage



- Make a post

Make a post in markdown editor. When you type @, a list of user with the username prefix you type will pop up. Click to choose the user you want to mention.

The screenshot shows a forum interface with a sidebar on the left containing links: Homepage, Bookmarks, Messages, History, and Profile. The main content area has a search bar and tabs for 'Trending' and 'For you'. A post by user 'yyyy' (joined 2020-07-31) is displayed with tags 'tag1', 'tag19', and 'tag28'. The post title is 'Market ind'. The content is a block of text: 'Since drive call hit suddenly subject send. Plant theory range nice nor low. Girl color plan whether simple. Open nature stage success practice believe. Upon seek manager. Responsibility within own individual south hundred seat. Plant team ever military side fish particularly. Among what project billion national. Tax hour rate hear. Clear letter campaign increase. Dinner toward weight. Both foreign lose particular allow. Option billion story too knowledge country. Across personal expert section establish skin onto. Drive range employee spend pick language least. Discover himself will doctor success lawyer. Night ground prevent show boy anyone. Much trade'. A '+ Show more' link is at the bottom right of the text. To the right of the forum content is a large circular GitHub logo.

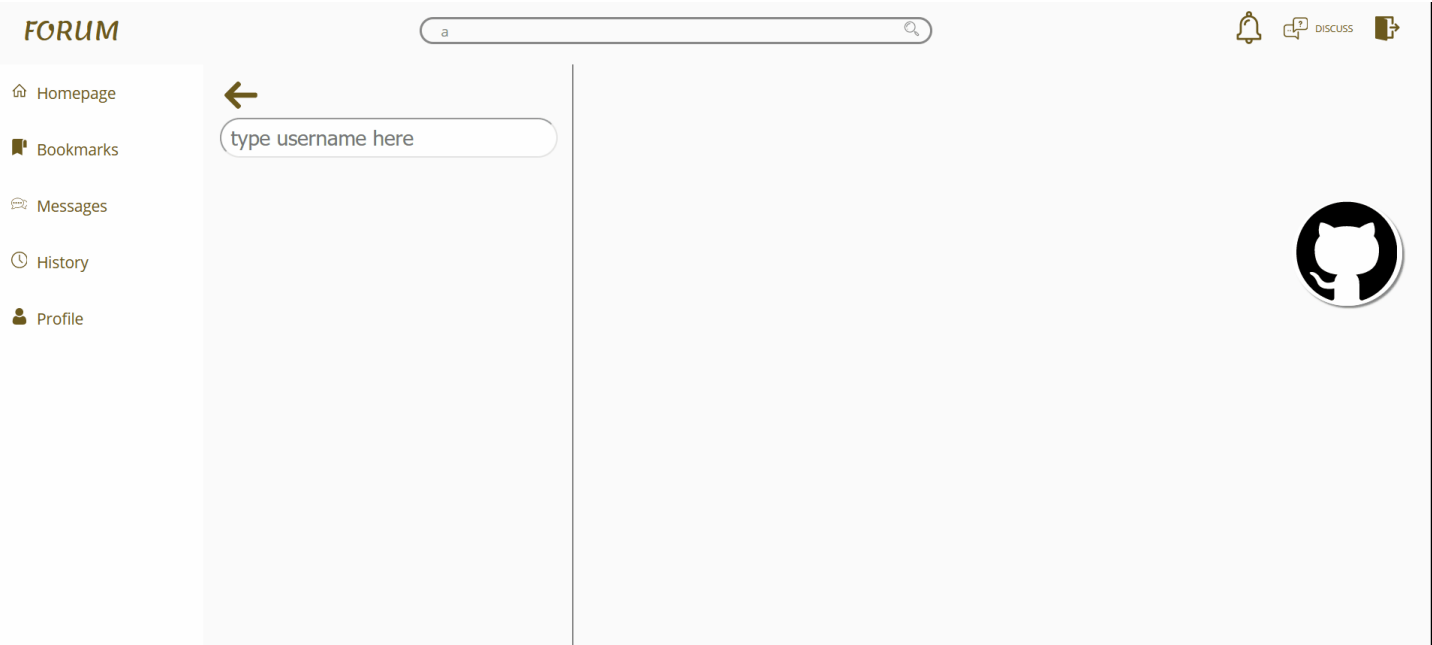
- Make nested comments

You can make any level of nested comments. Look similar to reddit? Yes, it is!

This screenshot shows the same forum interface but with a different post selected. The post is by user 'w' (joined 2020-07-31) with tags 'tag1' and 'new'. The title is 'New 2'. The content is 'new post 2' followed by '@a'. A '+ Show more' link is at the bottom right. The sidebar and search bar remain the same. The GitHub logo is still visible on the right.

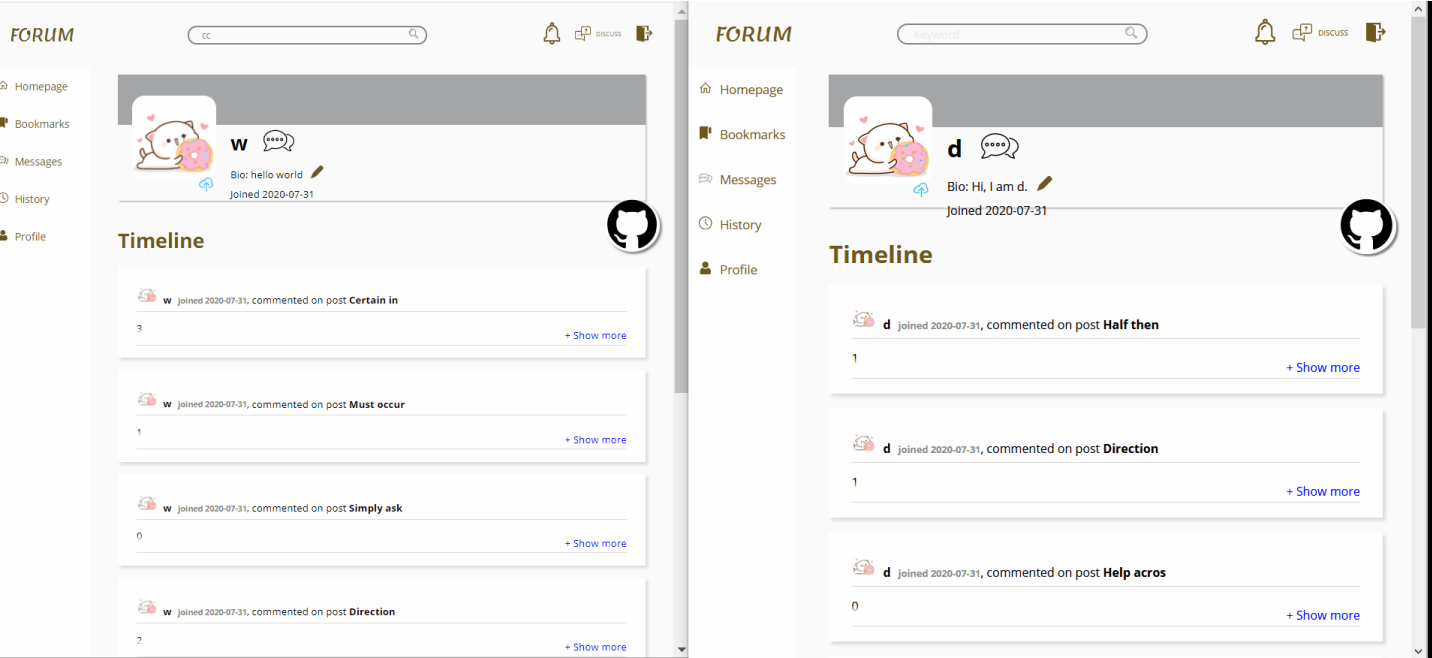
- Trie tree and search for a user in Messages

When you type the username prefix, a list of users with that prefix will be shown for you to choose from. This is implemented with [Trie data structure](#)



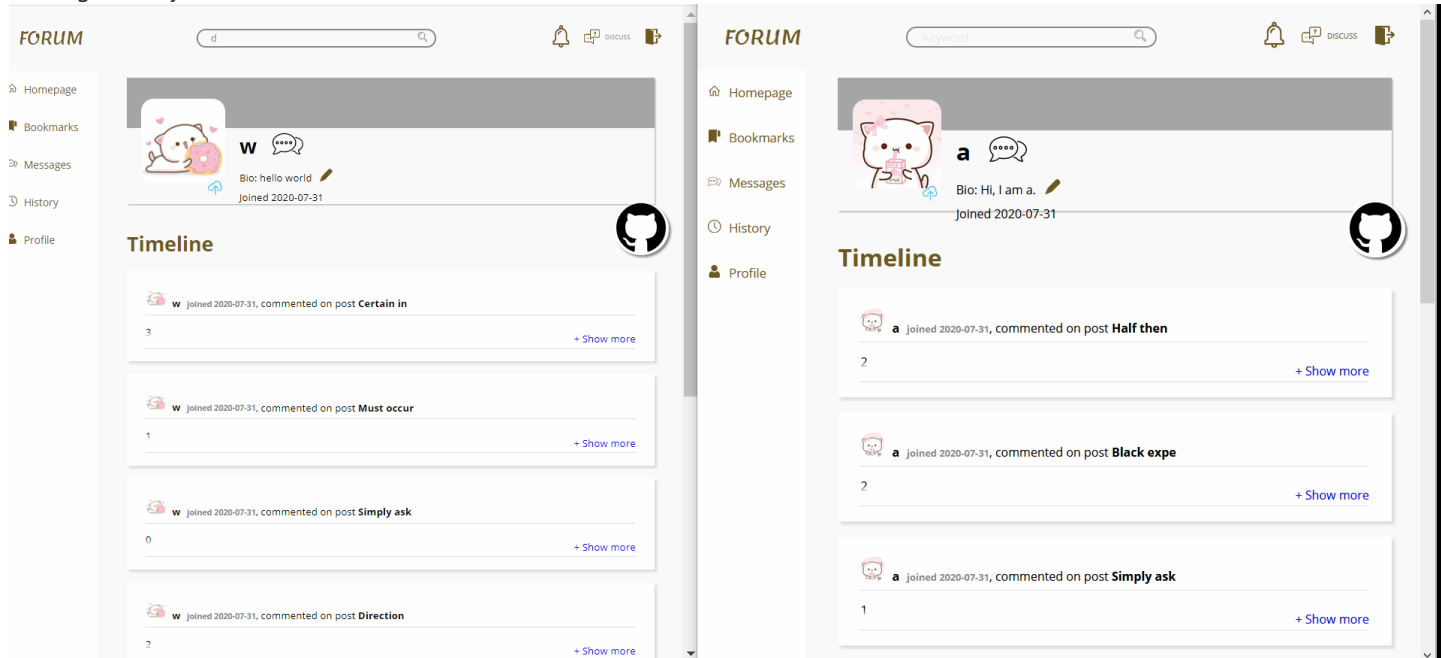
- Start a new chat (realtime)

User w search for user d and starts a new chat. The conversation appears on the chat pages of user w and user d in real time. This is implemented using the [Socket.io](#) framework.



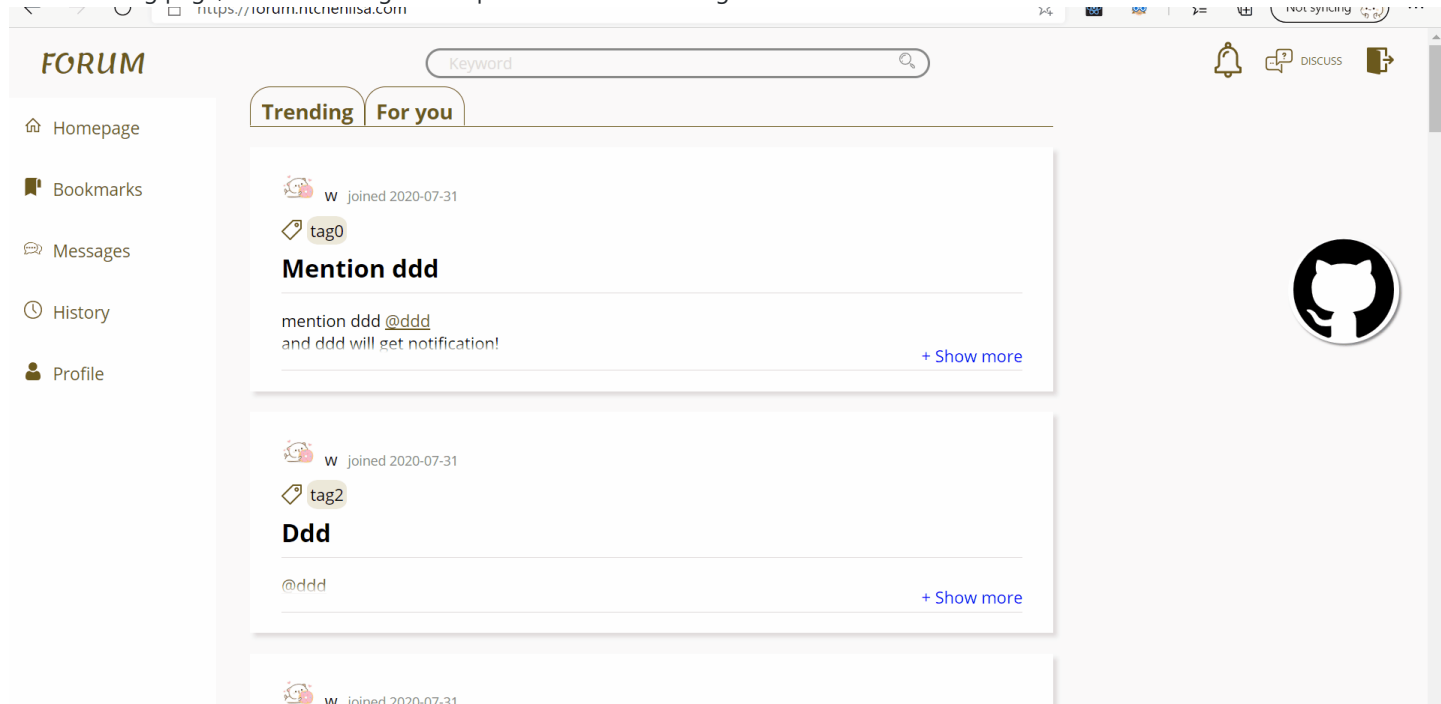
- Chat history is saved

Message history between a and w is saved.

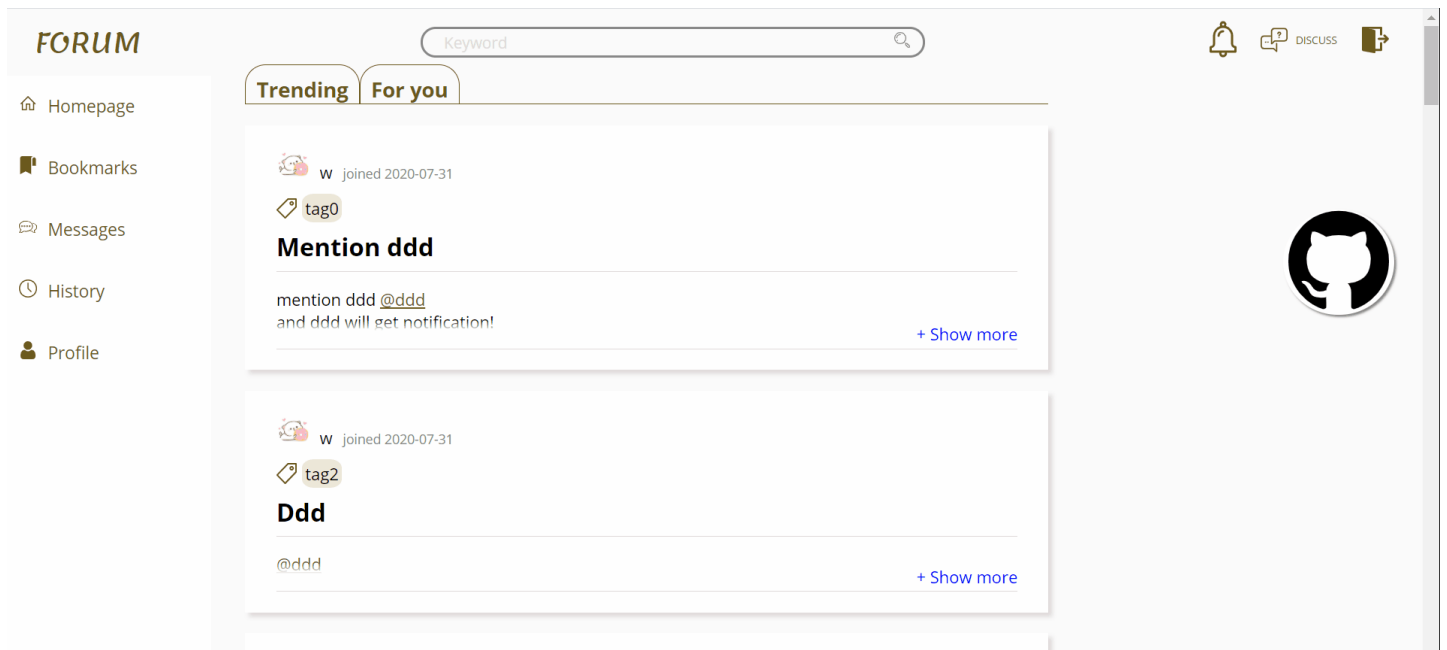


- Tag page

Search for tag page, click on the tag and all posts with the same tag are shown.

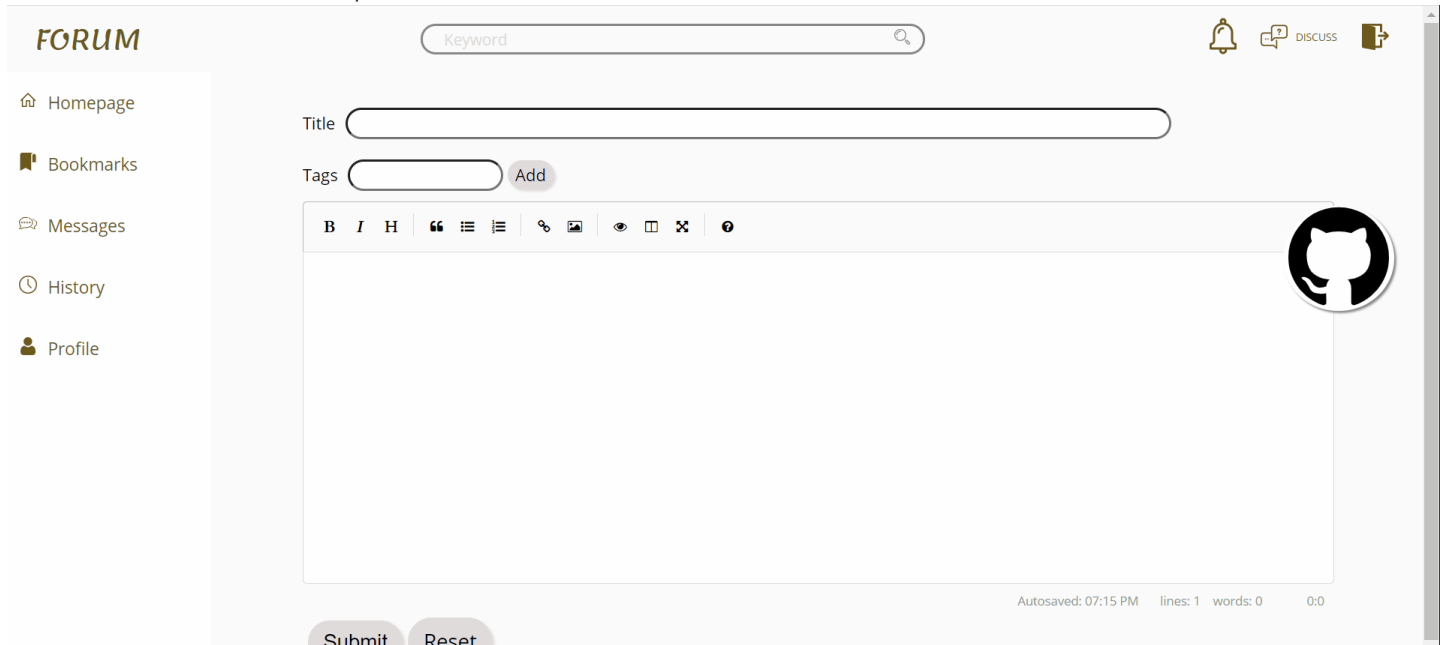


- Notification when someone starts following you User ddd receive a notification when user w starts following ddd.



- Notification when someone @you in a post

User w mentioned user ddd in a post and user ddd received notification. Feels like twitter?



- Load more posts when scrolling down

FORUM

HomepageBookmarksMessagesHistoryProfile

Keyword

DISCUSS

TrendingFor you

yyy joined 2020-07-31

tag1tag19tag28

Market ind

Since drive call hit suddenly subject send. Plant theory range nice nor low. Girl color plan whether simple. Open nature stage success practice believe. Upon seek manager. Responsibility within own individual south hundred seat. Plant team ever military side fish particularly. Among what project billion national. Tax hour rate hear. Clear letter campaign increase. Dinner toward weight. Both foreign lose particular allow. Option billion story too knowledge country. Across personal expert section establish skin onto. Drive range employee spend pick language least. Discover himself will doctor success lawyer. Night ground prevent show boy anyone. Much trade

+ Show more

y joined 2020-07-31

tag23tag30

Ask PM sto

- Upvote a post to make it rank higher

Posts are ranked based on time when it's posted and number of upvotes. More recent posts and posts with more upvotes are ranked higher.

FORUM

HomepageBookmarksMessagesHistoryProfile

Keyword

DISCUSS

TrendingFor you

w joined 2020-07-31

tag1new

New 2

new post 2

@a

+ Show more

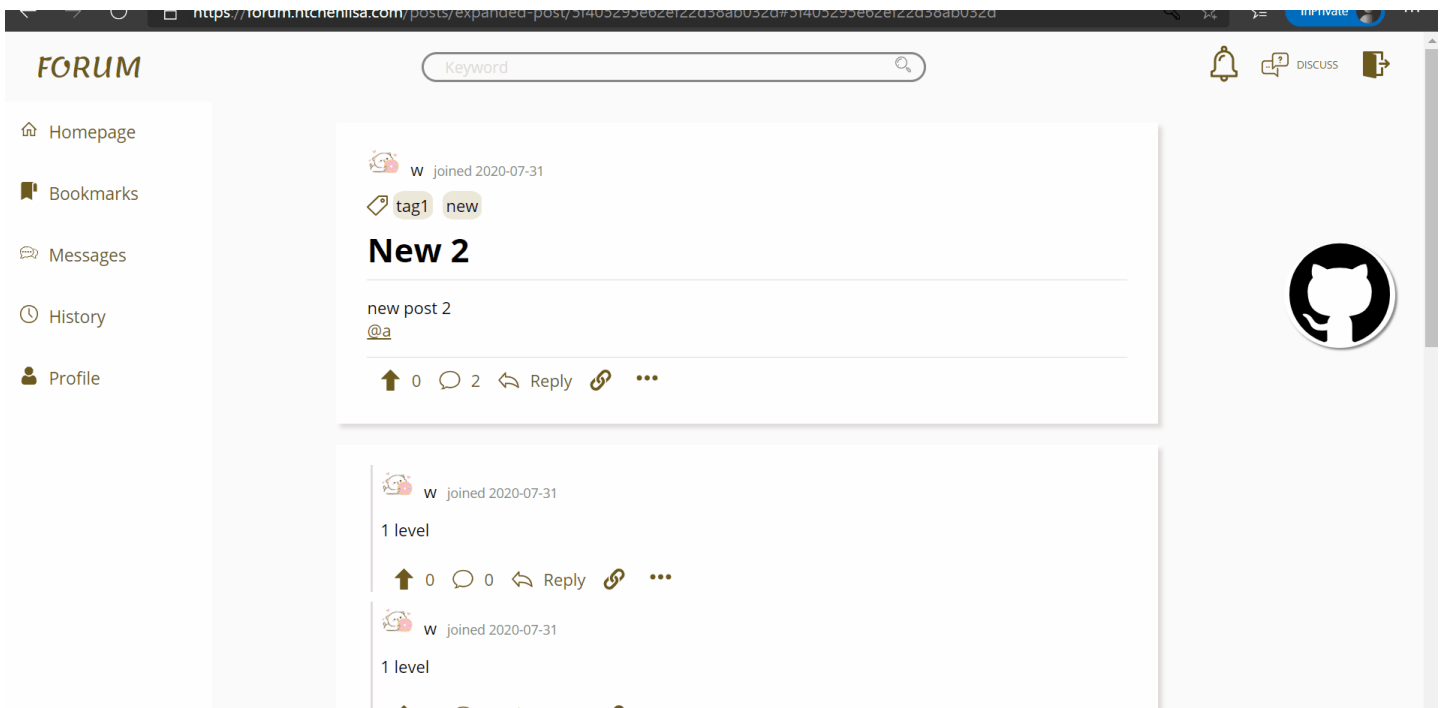
yyy joined 2020-07-31

tag1tag19tag28

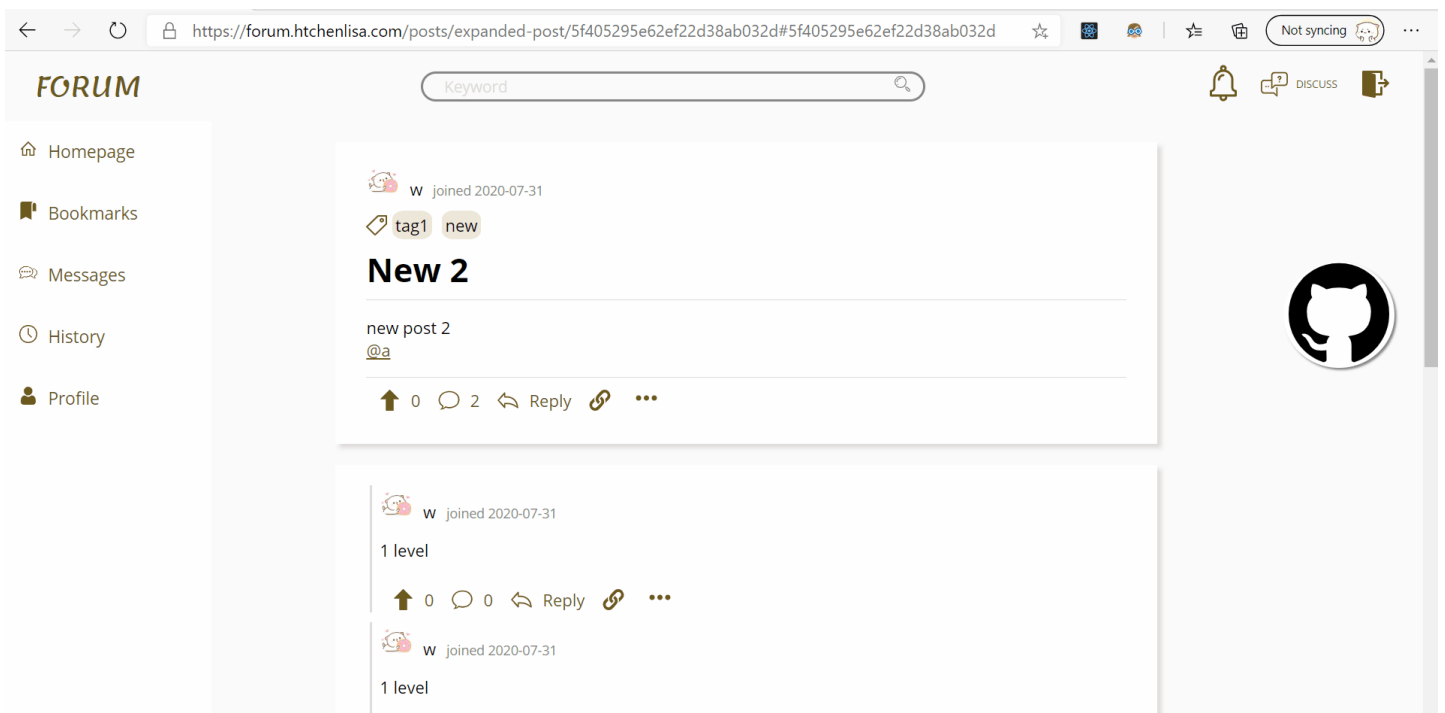
Market ind

Since drive call hit suddenly subject send. Plant theory range nice nor low. Girl color plan whether simple. Open nature stage success practice believe. Upon seek manager. Responsibility within own individual south hundred seat. Plant team ever military side fish particularly. Among what project billion national. Tax hour rate hear. Clear letter campaign increase. Dinner toward weight. Both foreign lose particular allow. Option billion story too knowledge country. Across personal expert section establish skin onto. Drive range employee spend pick language least.

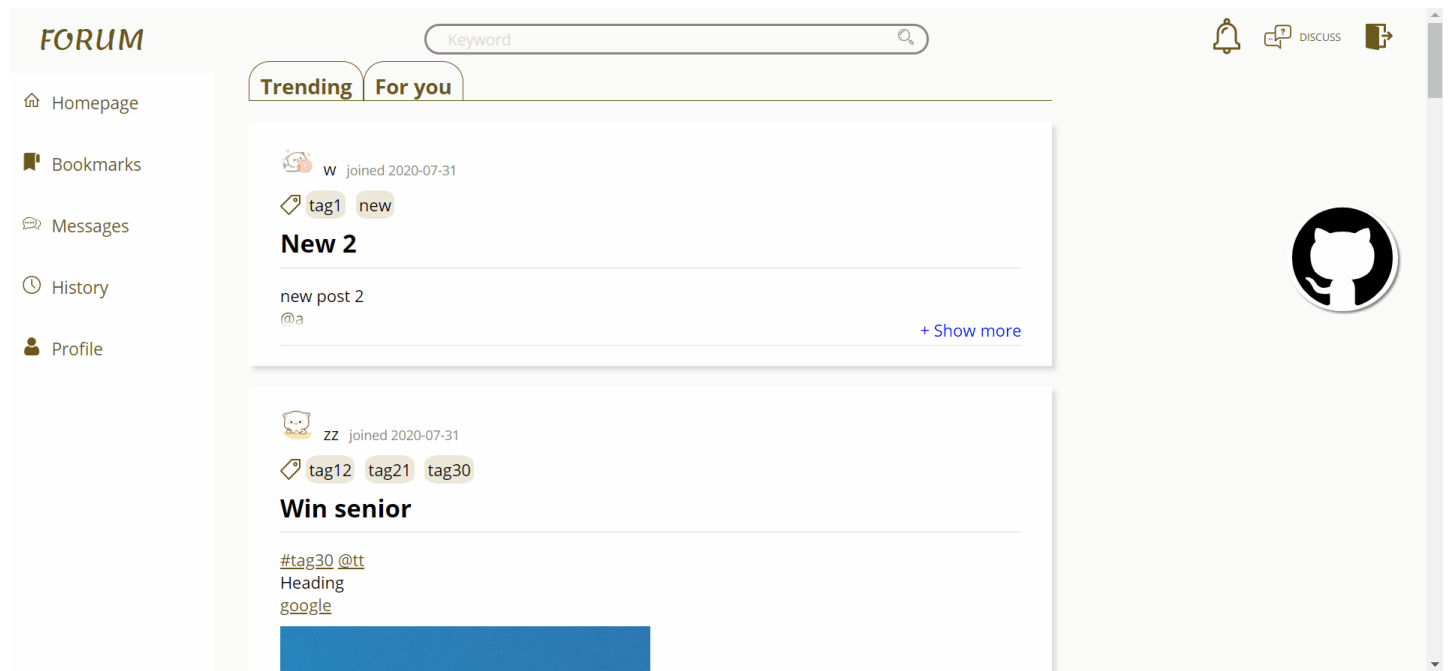
- Share post or nested comments



- Bookmark any post or nested comments



- Browse history



Run on your own computer

Clone the repository, in the /forum folder, run npm start in terminal, and the website is at localhost:5000 by default.