

Web Programming CS-518

Milestone 3 Project Report

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Submitted By: -
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Moving onto the further stage, for milestone 3 the base requirements were:-

Implementation of New Features & Pagination.

1. Implement pagination for the most recent posts. Make a reasonable choice of "page" length (e.g., 10 questions per page).
2. Use Ajax to fetch and populate prior messages and pre-pend posts to the display area
3. Allow users to embed pretty-formatted code, images from a local file, and images from the web in posts.
4. Provide a help page for your site with information about usage, edge cases, implementation, or other useful hints for how to interact with your site.

Administration.

1. Provide a special user account (ADMINISTRATOR)
2. Allow administrators to edit channel membership
3. Allow administrators to delete posts
4. Allow administrators to invite new users
5. Allow an administrator to "archive" a channel, which should result in no further posts, reactions, modifications to group membership.
6. An administrator should also be able to "unarchive" a channel.

User.

1. Create a user reputation metric based on number of channels, number of posts, and reactions
2. Display reputation and associated metrics in the user's profile
3. Provide a textbox in your interface to allow any registered user to query your database to look up any other user. The result of the lookup must display the user's profile page from milestone 2.
4. Each time a user types a letter in the textbox, perform an Ajax request to query your database, return, and display preliminary results.
5. For example, if two users in your database have usernames "pallen" and "paulo", typing "pa" in the textbox would preliminarily display both user's names with a means to directly access the users' respective profiles

Programming Language Introduced:

AJAX (Asynchronous JavaScript and XML):

Why AJAX:

Using Ajax, we can send and receive information in various formats, including JSON, XML, HTML, and text files. AJAX's most appealing characteristic is its "asynchronous" nature, which means it can communicate with the server, exchange data, and update the page without having to refresh the page.

The major features of AJAX allow you to do the following:

- Update a web page without reloading the page
- Request data from a server - after the page has loaded
- Receive data from a server - after the page has loaded
- Send data to a server - in the background

We have used Ajax to make functionality work for:

Implementation of pagination – To fetch and display most recent post on the top and divide 10 messages per page.

For group modification.

Implementation of reply functionality.

Implementation of reactions on message.

Providing real-time search of another user and display profile page.

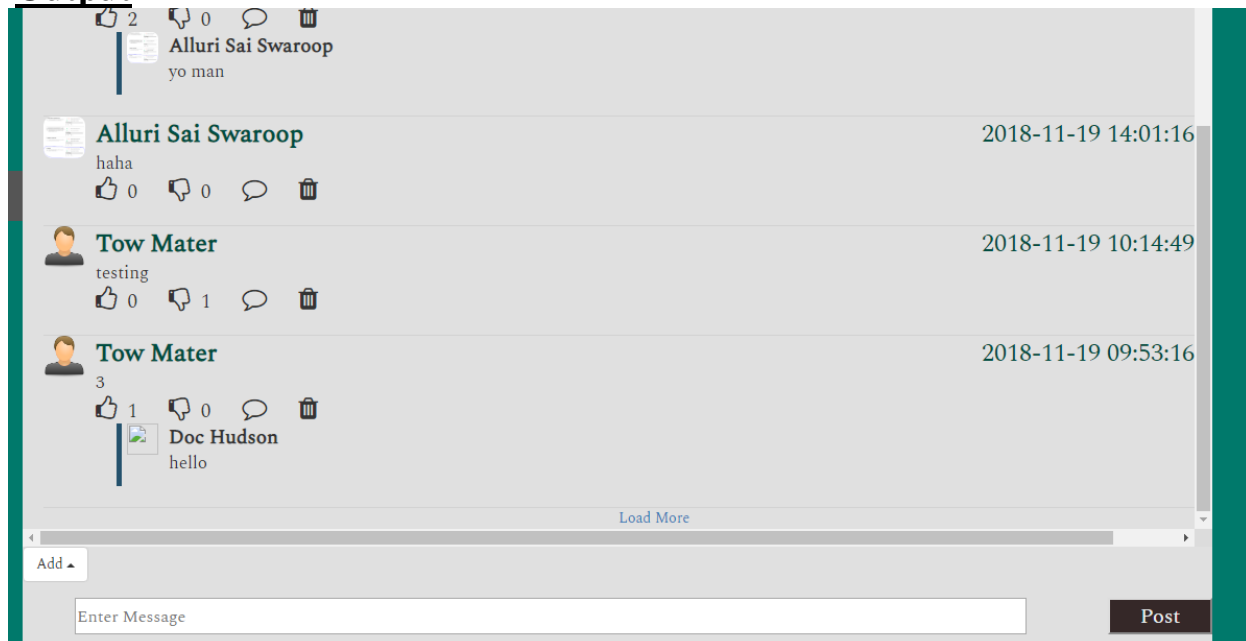
Pagination.

Using Ajax, we have Implemented pagination which display page no. on the top of the screen which indicates 10 messages per page on that channel.

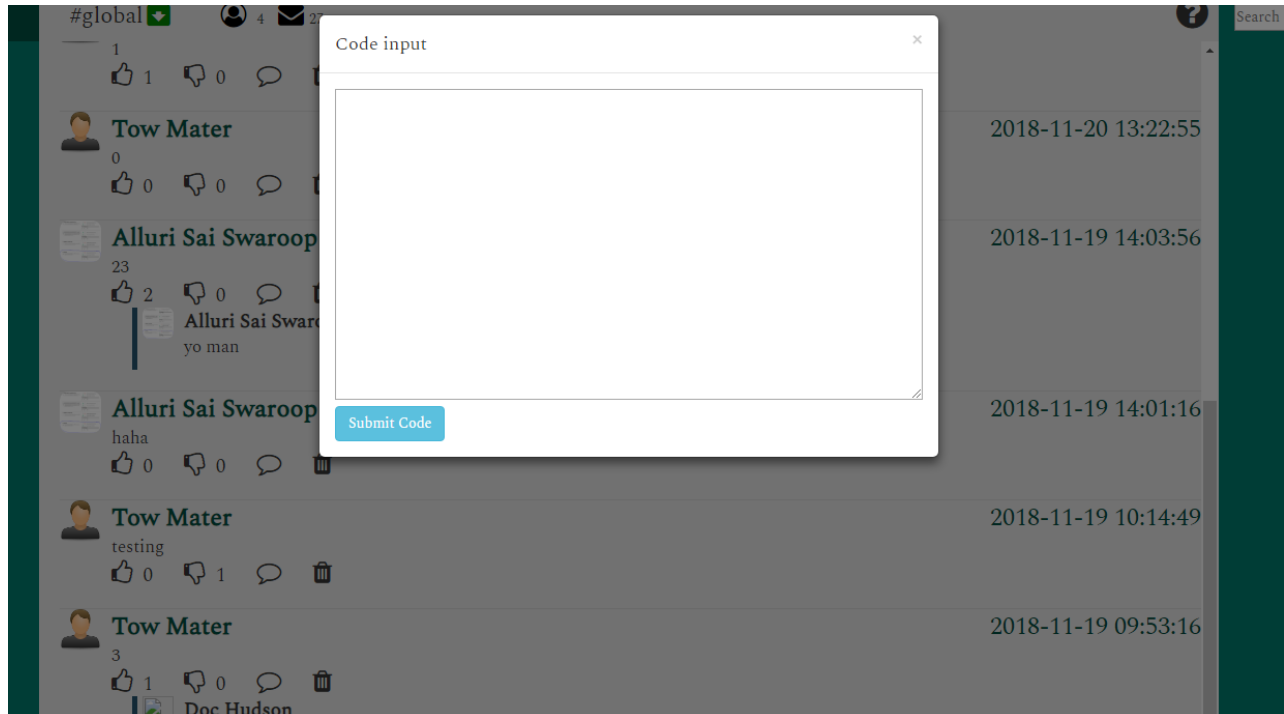
Code Snippet for pagination:

```
});  
  
var messages_size = $('.single_message').length;  
if (messages_size>10){  
var x=10;  
$('#messages .single_message:lt('+x+')').show();  
  
$(document).on('click','#loadMore',function(){  
x= (x+10 <= messages_size) ? x+10 : messages_size;  
  
$('#messages .single_message:lt('+x+')').show();  
if(x == messages_size){  
$('#loadMore').hide();  
}  
});  
}  
else{  
$('.single_message').show();  
$('#loadMore').hide();  
}  
}  
  
);
```

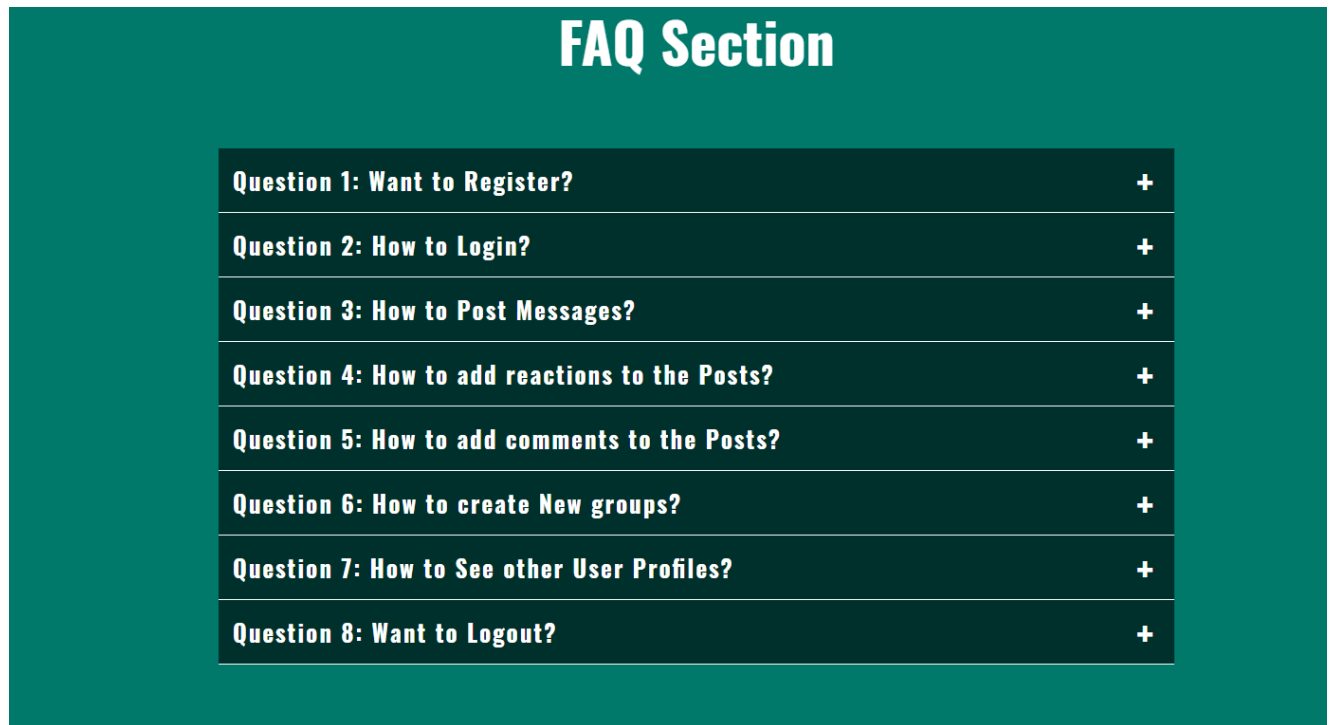
Output



Pretty-formatted Code:

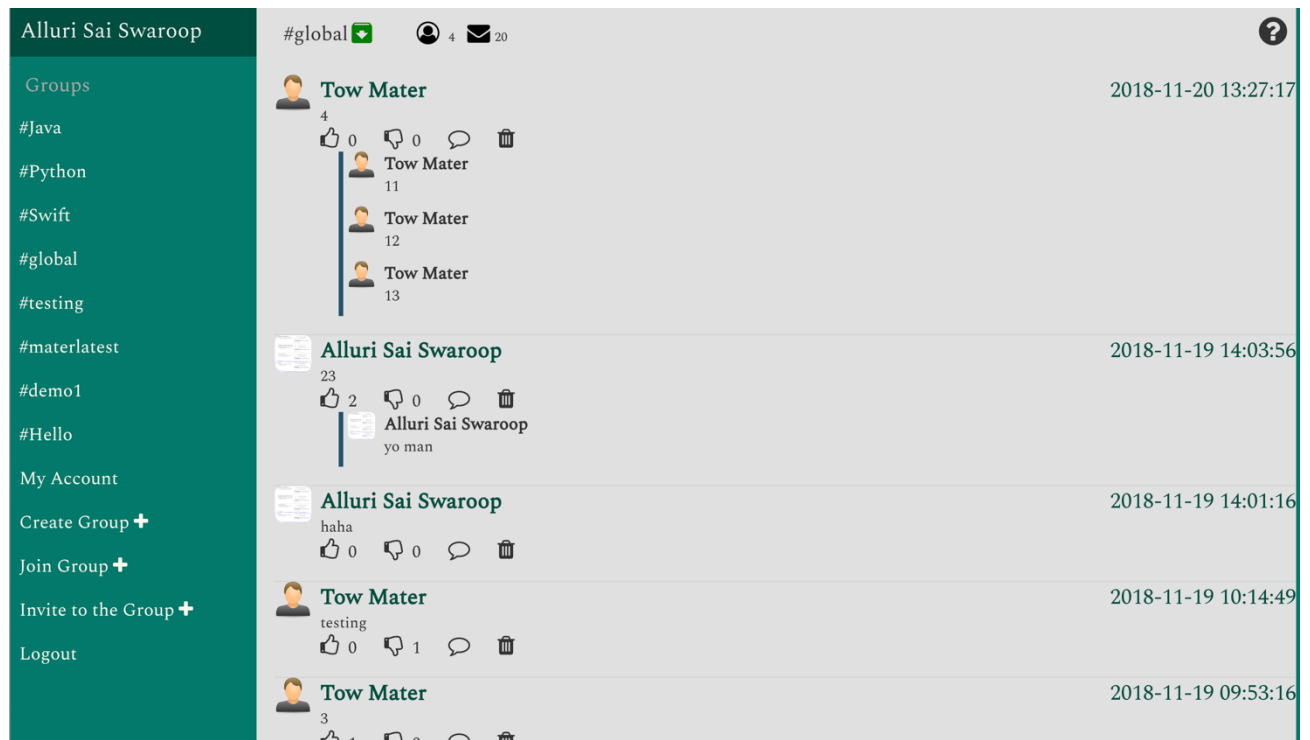


Help Page:

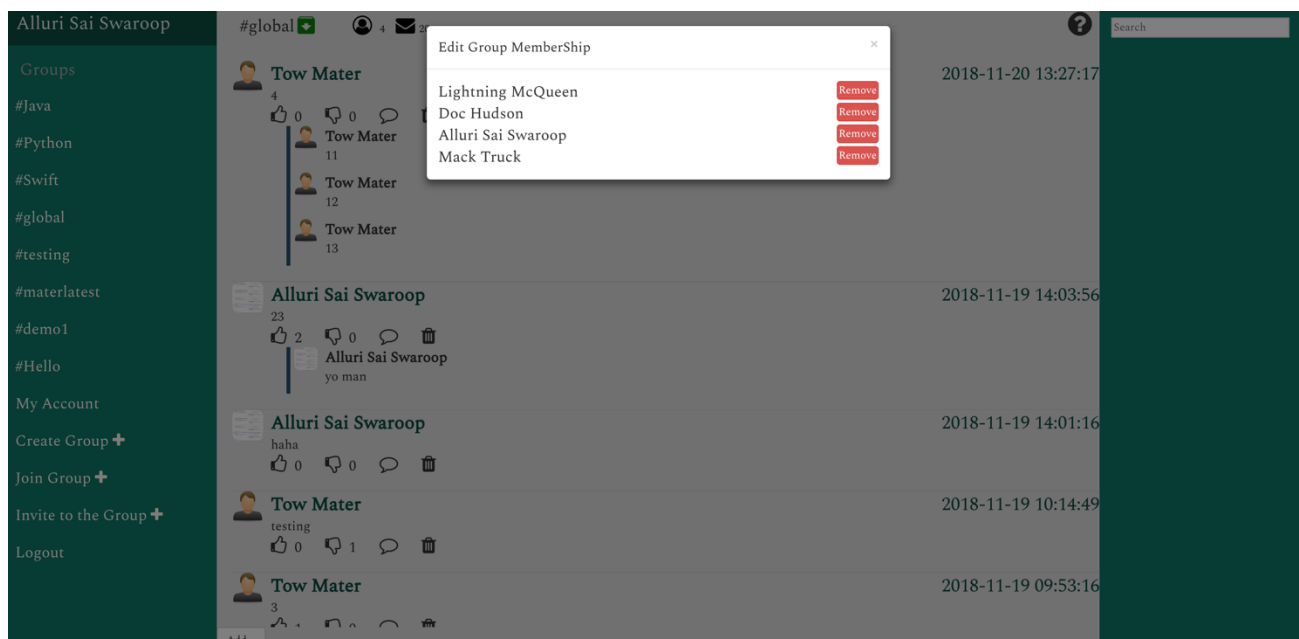


Administrator:-

We have provided a special user called as **Alluri Swaroop** as an Administrator.



Administrator can edit channel membership. Where he can remove any user present in the current group.



Administrator can add any member.

Select the group

Java

Select an invitee

☐ Lightning McQueen

☐ Tow Mater

☐ Doc Hudson

☐ Chick Hicks

☐ hai

☐ Mack Truck

Submit

Administrator can **Archive** and **Unarchive** any channel, which results in no further posts, reactions. When the group is achieved the button would be turned to red color.

Alluri Sai Swaroop

#global 4 20 ?

Groups

#Java

#Python

#Swift

#global

#testing

#materlatest

#demo1

#Hello

My Account

Create Group +

Join Group +

Invite to the Group +

Logout

Tow Mater

4

0 0 0

Tow Mater 11

Tow Mater 12

Tow Mater 13

2018-11-20 13:27:17

Alluri Sai Swaroop

23

2 0 0

Alluri Sai Swaroop yo man

2018-11-19 14:03:56

Alluri Sai Swaroop

haha

0 0 0

2018-11-19 14:01:16

Tow Mater

testing

0 1 0

2018-11-19 10:14:49

Tow Mater

3

0 0 0

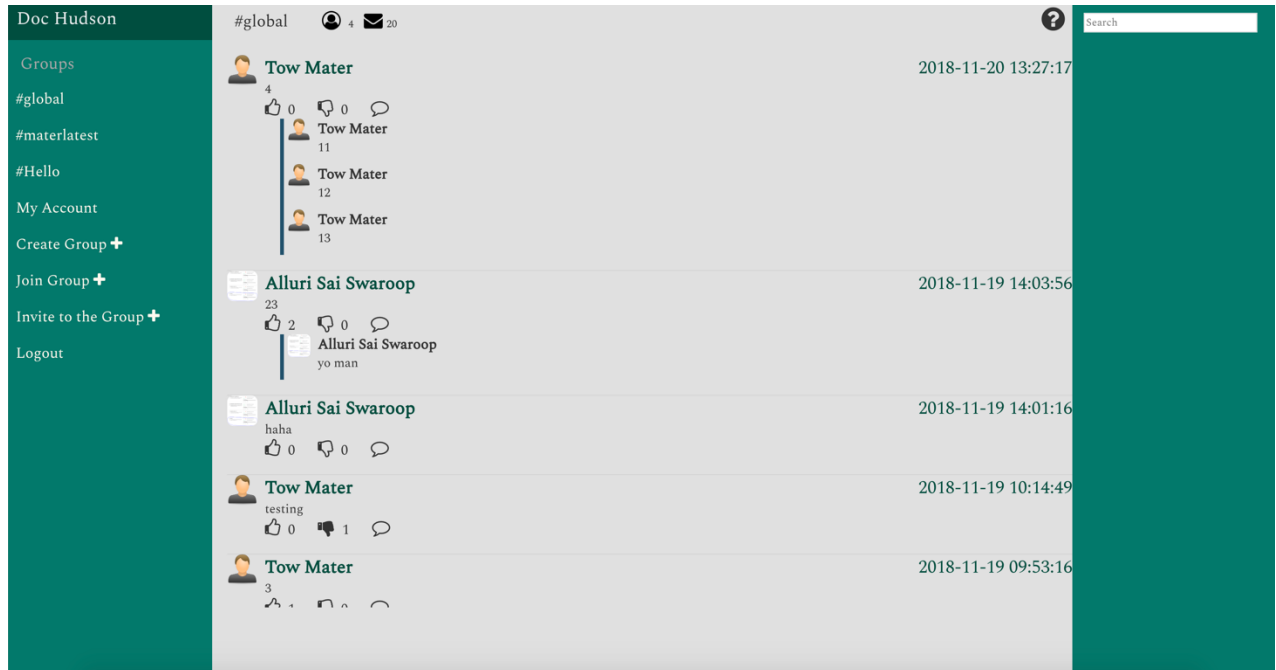
2018-11-19 09:53:16

Add

Enter Message

Post

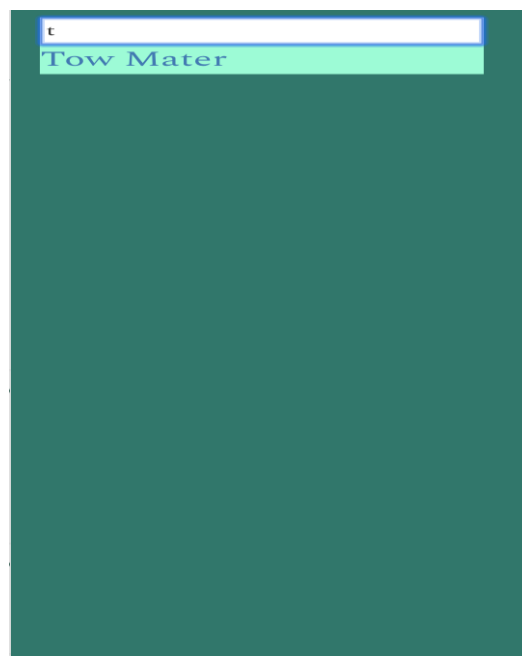
If other users goes to the group then there won't be post button and also reactions are disabled.



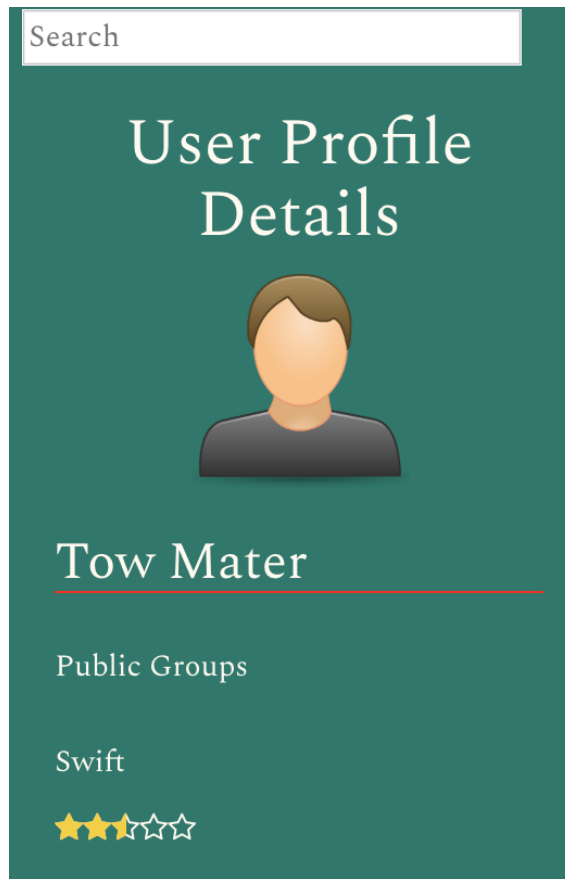
User Profiles :-

Just by typing in the initials of any user would preliminarily display user's names.

We have implemented onkeyup() function using ajax to fetch the data from the database.



Metrics:



-Display this reputation metrics in the user's profile page.

A textbox will provide any signed in user to look up any other user.

Each time user enters the name of any user in the textbox it will perform an Ajax request to query the database and retrieve the records for that user.

Algorithm for Metric:

Weightage for posts is given 50%, number of likes is 30% and number of dislikes is 20%.

The number of posts or likes or dislikes greater than and equal to 10 is considered 100%.

