

Homework 1 report:

Homework execution is handled by Makefile

in this homework we are asked to create basic social media functions such as following, adding post, comment, liking etc...

Biggest part of the homework was Account class. Account class has these methods

1) block:

this method handles blocks some other accounts if an account is blocked then the blocked account can not see posts and profile. This error handling mechanism is completed

2) getblock

this method handles when some account blocks you. this method puts the blocker account in an array so that you can not view blocker account

3) login and logout methods

this method handles basic logging functions. an account can not do anything if it is not logged in

4) sendMessage

this method puts your message in outbox array and gives the message objects the account that takes message

5) receiveMessage

this method puts incoming message to inbox array

There are more methods in Account class but all of them has common logic. Methods do their task and put this information in related array. Arrays are dynamically allocated C arrays. Another data types were not used.

Post class is one of the biggest classes. It handles getting comment, getting like, getting view through overriding toString method.

Like and Comment class extends the Interaction class. Interaction class has some basic fields such as interactionID, postID, accountID.

Comment class overrides toString method to be able to get view

Message class is also has its information such as messageID, senderID, receiverID, and content. SenderID and receiverID actually is not a ID just nicknames. It also overrides toString method.

Hierarchy between classes like that.

Test cases:

scenario 1:

Step 1: Create 3 accounts with usernames gizemsungu , sibelgulmez , and gokhankaya .

Step 2: Login to the account with username sibelgulmez .

o Step 3: Share two posts.

o Step 4: Follow gizemsungu and gokhankaya .

o Step 5: Log out from the account.

Step 6: Login to the account with username gokhankaya .

o Step 7: View sibelgulmez s profile.

o Step 8: View sibelgulmez s posts.

o Step 9: Like a post of sibelgulmez .

o Step 10: Comment on a post of sibelgulmez .

o Step 11: Follow sibelgulmez and gizemsungu .

o Step 12: Send a message to gizemsungu .

o Step 13: Log out from the account.

Step 14: Login to the account with username gizemsungu .

o Step 15: Check the number of messages in the outbox.

o Step 16: Check the number of messages in the inbox.

o Step 17: View the messages in the inbox.

o Step 18: View sibelgulmez s profile.

o Step 19: View sibelgulmez s posts.

o Step 20: View sibelgulmez s posts interactions.

o Step 21: Like sibelgulmez s posts.

o Step 22: View sibelgulmez s posts interactions.

sceanario 2:

1. gizemsungu logs in.
 - a. shares a post (let s call it Post1).
 - b. shares another post (let s call it Post2).
 - c. logs out.
2. sibelgulmez logs in.
 - a. views the profile of gizemsungu .
 - b. likes Post1.
 - c. logs out.
3. gokhankaya logs in.
 - a. views the profile of gizemsungu .
 - b. comments on Post2 (ex: Nice!).
 - c. sends a message to gizemsungu (ex: Hello!)
 - d. logs out.
4. gizemsungu logs in.
 - a. views her own profile.
 - b. reads the message from gokhankaya .

sceanario 3:

1. gizemsungu logs in.
 - a. blocks sibelgulmez .
 - b. logs out.
2. sibelgulmez logs in.
 - a. tries to view the profile of gizemsungu .
 - b. tries to send a message to gizemsungu .