cse222 homework 1 report

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# detaıled system requırements

## Description

The aim of the project was to develop a social media platform software. There is an account in this project. This account owner has its own ID, username and personal information, as well as inbox, outbox messages and followers, followings. It can follow accounts, share posts, view profiles, posts and post interactions. He/She can like and comment on posts.

As a bonus part, the user can block another account in this project.

## Software requirements

* Just type down the userID / username, no password needed for the login
* After logging into an account, only that account can execute operations e.g. you cannot send a message from another account, but you can send messages to anyone.
* You cannot view or send a message to an account that doesn’t exist, you cannot like a post that doesn’t exist etc.
* If a username is already used, it cannot be used again to create a new account.
* The user has to be logged in to use the functions.
* The user has to be following to send message.
* Different types of objects (like a post, message, interaction, account) might have the same ID but the same type of objects should have different ID numbers.
* Otherwise the user don’t has to be following to view profile, posts or interactions.
* As a bonus part, If user blocked by any account, he/she is not able to view profile or send message.

# the project use case dıagrams

Diagram

Description automatically generated

# problem solutıons approach

Created an Account class that will do all the operations.

This class has follower, following, blockedAccounts, inbox, outbox, posts arrays.

* void login(Account[] accounts):

This function makes Account object logged in, so now user can use other functions.   
It checks any other user logged in or not.

* void logout():

This function makes Account object logged out, so now user cannot user other functions.

It checks user logged in or not. If did not log in, do not the operation.

* void viewProfile(Account account):

This function prints output of the account information to the terminal.

It checks the user logged in or not.

It checks the user blocked by account or not.

* void viewPosts(Account account):

This function prints output of the posts of the account to the terminal

It checks the user viewed the profile of the account. The other controls have been checked from viewProfile function.

* void viewInteractions(Account account, Account[] accounts):

This function prints output of the interactions of the posts to the terminal. The other controls have been checked from viewProfile function.

It checks the user viewed the posts of the account.

* void sharePost(Post post):

This function adds an Post element to the posts array in the Account object.

* void follow(Account account):

This function adds an Account object to the following array of the user and adds an Account object to the followers array of the account.

* void like(int postID, Account account):

This function adds an Like object to the likes array of the post of the account which has that postID.

# problem solutıons approach

* void comment(int postID,Account account, String content):

This function adds an Comment object to the comments array of the post of the account which has that postID.

* void sendMessage(String content,Account account):

This function adds a Message object to the outbox array of the user and adds a Message object to the inbox array of the account.

* void checkInbox():

This function prints output of the Message objects in the inbox array to the terminal.

* void checkOutbox():

This function prints output of the Message objects in the outbox array to the terminal.

* void block(Account account):

This function adds a Account object to the blockedAccounts array in the user’s Account object.

* boolean checkIsFollowing(Account account):

This function controls that user is following that account or not.

* boolean checkIsFollower(Account account):

This function controls that user is follower of that account or not.

* boolean isBlocked(Account account):

This function controls user is blocked by account or not.

* boolean checkAnyLogin(Account[] accounts):

This function controls is there any logged in account before the user login.

# test cases

TEST CASE 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

# test cases

TEST CASE 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”.

TEST CASE 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”.

# test cases

TEST CASE 4

1.”sibelgulmez” logs in.

a. share 1 post

b.follow gizemsungu

2. try to follow sibelgulmez from “gizemsungu”

TEST CASE 5

1.”gokhankaya” logs in

a. views gizemsungu’s profile

b. views gizemsungu’s posts

c. views sibelgulmez’s posts

2. “gizemsungu” logs out

# runnıng command and results

 TESTCASE1

Text

Description automatically generatedText

Description automatically generated

# runnıng command and results

Text

Description automatically generatedText

Description automatically generated TESTCASE2

Text

Description automatically generatedText

Description automatically generatedText

Description automatically generated

# runnıng command and results

 TESTCASE3Text

Description automatically generatedText

Description automatically generatedText

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# runnıng command and results

Text

Description automatically generated TESTCASE4

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Description automatically generated

 TESTCASE5

Text

Description automatically generated