



**Gebze Technical University**

**Department Of Computer Engineering**

**CSE 222/505 - Spring 2023**

**Data Structures and Algorithms**

**Homework #1**

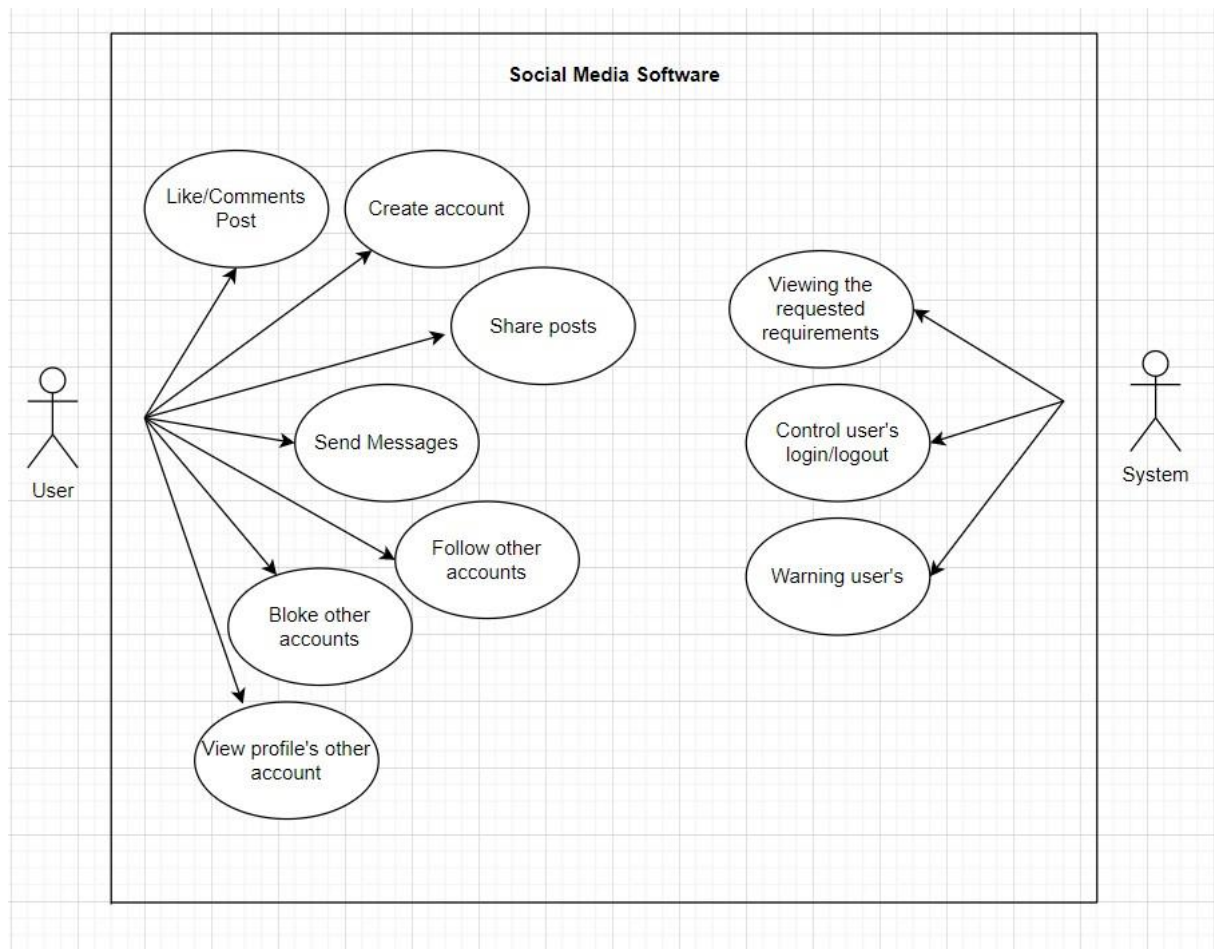
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## 1) SYSTEM REQUIREMENTS

- ✓ Social media software is an interface where users can share posts, send messages to other accounts, interact with other accounts. User can create an account for himself with his user information (eg. username, date of birth, location). After logging into the account, the post can be shared, other accounts can be followed, viewed the profiles of other accounts, interacted with posts and messaged to other accounts. In order for the user to message other accounts, they must also follow them. User can block other accounts. Blocked accounts are not allowed to see and message the profile of the account they have been blocked. User can view their own message box, and view post interactions of other accounts.
- ✓ The program warns the user if it is desired to create an account with a username already taken, checks whether the user has logged into his account for the necessary operations, and does not allow to do the necessary operations without logging into his account.

## 2) USE CASE DIAGRAM



### 3) PROBLEM SOLUTION APPROACH

- ✓ In this project, we are expected to design a simple social media software where users can share posts, like/comment on shared posts, and follow each other. Our first problem here is to decide how the communication between the classes will be. Every user on social media must have an account and operations must be made through this account, so we have an Account class. An account can post, message and interact with other posts. Here I used the composite object approach. I put the objects of the Post and Message classes inside the Account class as object variables. So I have established a '**has-a**' relationship in this way. (Each message has an account to which it belongs, and an account can have more than one message). I used the same relationship in Post class, for Like and Comment class. (a post can have more than one like, but one like belongs to one post). There is also the case of an account interacting. Interaction can be in the form of likes and comments. So we have an Interaction class and the interaction types inherit from it ('**is-a**' relationship), so the interaction types have the properties of an interaction. In other words, I completed the social media software by establishing the relations between the classes in this way.
- ✓ I tested the requirements with 3 different scenarios (TestClass1, TestClass2, TestClass3).

In requirements;

- I initialized the Id's (for example messageld, postId) from one, not from zero. (In the pdf step17, the first messageld was printing as zero, since I initialized the Id's from one, I printing one here.)
- For scenario 3, I added an array where I keep the blocked accounts.

#### 4) TEST CASES

TEST CASE ID	TEST SCENARIO	TEST STEPS	TEST DATA	EXPECTED RESULTS	ACTUAL RESULTS	PASS/ FAIL
TU01	Check adding post with logged in account	1.Create account 2.Login this account 3. Share post	Account: sibelgulmez postId=1 content= "I like Java"	The user can share the post in his/her account.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username sibelgulmez has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Sharing two post   sibelgulmez shared two posts.   (PostId: 1) sibelgulmez: I like Java.   (PostId: 2) sibelgulmez: Java the coffee...           </pre>					
TU02	Check adding post with not logged in account	1.Create account 2.Share post	Account:gokhankaya postId: 1 content: "Hello"	The program gives a warning that you need to log in to share a post.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Sharing two post   sibelgulmez shared two posts.   (PostId: 1) sibelgulmez: I like Java.   (PostId: 2) sibelgulmez: Java the coffee...  ***Control of adding post with not logged in account 'gokhankaya.addPost' ! You must be logged in to your account to share a post.           </pre>					
TU03	Check following accounts with logged in account	1.Create account 2.Login account 3.Follow another account	Account: sibelgulmez Following account:gizemsungu	The user starts following the other account. The list of followers and followings is updated on both accounts.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username gizemsungu has been created.   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Following gizemsungu and gokhankaya   sibelgulmez followed gizemsungu   sibelgulmez followed gokhankaya           </pre>					

TU04	Check following accounts with not logged in account	1.Create account 2.Follow another account	Account: gizemsungu Following account: sibelgulmez	The program gives a warning that you need to log in to follow a account.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username gizemsungu has been created.   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Following gizemsungu and gokhankaya   sibelgulmez followed gizemsungu   sibelgulmez followed gokhankaya  ***Control of another account in follow function 'gizemsungu.follow(sibelgulmez)' Before you can follow an account, you must log in to your account. </pre>					
TU05	Check trying to follow an already followed account again	1.Create account 2.Login account 3.Follow account	Account:sibelgulmez Following account: gizemsungu	The program gives a warning that you have already followed this account. There will be no updates to the following and followers lists.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username gizemsungu has been created.   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Following gizemsungu and gokhankaya   sibelgulmez followed gizemsungu   sibelgulmez followed gokhankaya  Step 4... Following gizemsungu   ! You are already following this account. </pre>					
TU06	Check login out with logged in account	1.Create account 2.Login account 3.Logout account	Account:sibelgulmez	The user logs out of his/her account.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username gizemsungu has been created.   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Logging out from account 'sibelgulmez'   sibelgulmez logged out of account </pre>					



TU07	Check login out with not logged in account	1.Create account 2.Logout account	Account: gizemsungu	The program gives a warning if there is already no login.	As expected	Pass
	<pre> Step 1... Creating accounts   An account with username gizemsungu has been created.   An account with username sibelgulmez has been created.   An account with username gokhankaya has been created.  Step 2... Logging into an account (username: sibelgulmez)   sibelgulmez has logged into account  Step 3... Logging out from account 'sibelgulmez'   sibelgulmez logged out of account  ***Control of login out with not logged in account 'gizemsungu.logout' ! You are not already logged into your account </pre>					
TU08	Check viewing another account's profile with logged in account	1.Create account 2.Login account 3.View profile	Account: gokhankaya View account's profile: sibelgulmez	The account want to view is displayed.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya)   gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile -----   UserId: 2   Username: sibelgulmez   Location: Istanbul   Birthdate: 10.03.1995   sibelgulmez is following 2 account(s) and has 0 follower(s).   sibelgulmez is following: gizemsungu, gokhankaya.   sibelgulmez has 2 posts. ----- </pre>					
TU09	Check viewing another account's profile with not logged in account	1.Create account 2.View profile	Account: gizemsungu View account's profile: sibelgulmez	The program gives a warning that you need to log in to view a account.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya)   gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile -----   UserId: 2   Username: sibelgulmez   Location: Istanbul   Birthdate: 10.03.1995   sibelgulmez is following 2 account(s) and has 0 follower(s).   sibelgulmez is following: gizemsungu, gokhankaya.   sibelgulmez has 2 posts. -----  ***Control of view profile with not logged in account 'gizemsungu.viewProfile' ! You must be logged in to your account to viewing the profile of another account. </pre>					

TU10	Check viewing the profile you've been blocked	1.Create account 2.Login account 3.View profile	Account:sibelgulmez View account's profile: gizemsungu	The program gives a warning that you cannot view the profile.	As expected	Pass
	<pre> Step 1... Logging into an account (username: gizemsungu) gizemsungu has logged into account  Step2... Blocking to the account of sibelgulmez gizemsungu blocked sibelgulmez  Step 3... Logging out from account 'gizemsungu' gizemsungu logged out of account  Step 4... Logging into an account (username: sibelgulmez) sibelgulmez has logged into account  Step 5... Viewing gizemsungu's profile ! You have been blocked by gizemsungu </pre>					
TU11	Check viewing the posts of the account whose profile is viewed	1.Create account 2.Login account 3.View profile 4.View posts	Account: gokhankaya View account: sibelgulmez	The account's posts want to view is displayed.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya) gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile ----- UserId: 2 Username: sibelgulmez Location: Istanbul Birthdate: 10.03.1995 sibelgulmez is following 2 account(s) and has 0 follower(s). sibelgulmez is following: gizemsungu, gokhankaya. sibelgulmez has 2 posts. -----  Step 8... Viewing sibelgulmez's posts (PostId: 1) sibelgulmez: I like Java. (PostId: 2) sibelgulmez: Java the coffee... </pre>					
TU12	Check viewing the posts of the account whose profile is not viewed.	1.Create account 2.Login account 3.View posts	Account: gokhankaya View account: gizemsungu	The program warns that the user's profile must be viewed first in order to view the posts.	As expected	Pass
	<pre> Step 8... Viewing sibelgulmez's posts (PostId: 1) sibelgulmez: I like Java. (PostId: 2) sibelgulmez: Java the coffee...  ***Control of viewing posts with not view profile in account 'gokhankaya.viewPost(gizemsungu)' ! To view the posts, you must first view the user's profile </pre>					

TU13	Check liking the posts with logged in account	1.Create account 2.Login account 3.Like post	Account: gokhankaya Liked account: sibelgulmez postId:1	User can like the post.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya) gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile ----- UserId: 2 Username: sibelgulmez Location: Istanbul Birthdate: 10.03.1995 sibelgulmez is following 2 account(s) and has 0 follower(s). sibelgulmez is following: gizemsungu, gokhankaya. sibelgulmez has 2 posts. -----  Step 8... Viewing sibelgulmez's posts (PostId: 1) sibelgulmez: I like Java. (PostId: 2) sibelgulmez: Java the coffee...  Step 9... Liking a post of sibelgulmez gokhankaya liked post1 of sibelgulmez </pre>					
TU14	Check liking the post which does exist	1.Create account 2.Login account 2.Like post	Account: gokhankaya Liked account: sibelgulmez postId:1	User can like the post.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya) gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile ----- UserId: 2 Username: sibelgulmez Location: Istanbul Birthdate: 10.03.1995 sibelgulmez is following 2 account(s) and has 0 follower(s). sibelgulmez is following: gizemsungu, gokhankaya. sibelgulmez has 2 posts. -----  Step 8... Viewing sibelgulmez's posts (PostId: 1) sibelgulmez: I like Java. (PostId: 2) sibelgulmez: Java the coffee...  Step 9... Liking a post of sibelgulmez gokhankaya liked post1 of sibelgulmez </pre>					



TU15	Check liking the post which does not exist	1.Create account 2.Login account 2.Like post	Account: gokhankaya Liked account: sibelgulmez postId: 4	The program warns that there is no such post.	As expected	Pass
	<pre> Step 6... Logging into another account (username: gokhankaya) gokhankaya has logged into account  Step 7... Viewing sibelgulmez's profile ----- UserId: 2 Username: sibelgulmez Location: Istanbul Birthdate: 10.03.1995 sibelgulmez is following 2 account(s) and has 0 follower(s). sibelgulmez is following: gizemsungu, gokhankaya. sibelgulmez has 2 posts. -----  Step 8... Viewing sibelgulmez's posts (PostId: 1) sibelgulmez: I like Java. (PostId: 2) sibelgulmez: Java the coffee...  Step 9... Liking a post of sibelgulmez gokhankaya liked post1 of sibelgulmez  ***Control of liking post which does not exist 'post4 of sibelgulmez ! There is no such post </pre>					
TU16	Check liking the post with not logged in account	1.Create account 2.Like post	Account: gizemsungu Liked account: sibelgulmez	The program gives a warning that you cannot like the post without login.	As expected	Pass
	<pre> Step 9... Liking a post of sibelgulmez gokhankaya liked post1 of sibelgulmez  ***Control of liking post with not logged in account 'gizemsungu.like' ! You must log in to the account to like the post </pre>					
TU17	Check commenting the posts with logged in account	1.Create account 2.Login account 3.Comment post	Account: gokhankaya Commented account: sibelgulmez postId:1	User can comment the post.	As expected	Pass
	<pre> Step 10... Adding a comment on a post of sibelgulmez gokhankaya wrote a comment for post1 of sibelgulmez </pre>					

TU18	Check commenting the posts with not logged in account	1.Create account 2.Comment post	Account: gizemsungu Commented account: sibelgulmez postId:1	The program gives a warning that you cannot comment the post without login.	As expected	Pass
	<pre> Step 10... Adding a comment on a post of sibelgulmez gokhankaya wrote a comment for post1 of sibelgulmez  ***Control of commenting post with not logged in account 'gizemsungu.comment' ! You must log in to the account to write a comment the post </pre>					
TU19	Check commenting the post which does not exist	1.Create account 2.Login account 2.Comment post	Account: gokhankaya Commented account: sibelgulmez postId: 4	The program warns that there is no such post.	As expected	Pass
	<pre> Step 10... Adding a comment on a post of sibelgulmez gokhankaya wrote a comment for post1 of sibelgulmez  ***Control of commenting post which does not exist 'post4 of sibelgulmez' ! There is no such post </pre>					
TU20	Check sending message with logged in account	1.Create account 2.Login account 3.Send message	Account: gokhankaya Sended account: gizemsungu	You must be logged in to send a message. Then, it will be checked whether the account to which the message will be sent is followed.	As expected	Pass
TU21	Check sending message with not logged in account	1.Create account 2.Send message	Account: sibelgulmez Sended account: gizemsungu	The program gives a warning that you cannot send a message without login.	As expected	Pass
	<pre> Step 12... Sending a message to gizemsungu gokhankaya sent message to gizemsungu  ***Control of sending message with not logged in account 'sibelgulmez.sendMessage' ! You must log in to your account to send a message. </pre>					

TU22	Check sending message account which does not followed	1.Create account 2.Login account 3.Send messages	Account: gokhankaya Sended account: sibelgulmez	The program gives a warning that you cannot send a message account which does not followed.	As expected	Pass
	<pre> Step 12... Sending a message to gizemsungu gokhankaya sent message to gizemsungu  ***Control of sending messages to unfollowed account 'sibelgulmez' ! You must follow this account to be able to send a message </pre>					
TU23	Check sending messages to the account you've been blocked	1.Create account 2.Login account 3.Send messages	Account: sibelgulmez Sended account: gizemsungu	The program gives a warning that you cannot send message	As expected	Pass
	<pre> Step 1... Logging into an account (username: gizemsungu) ! You are already logged into your account.  Step2... Blocking to the account of sibelgulmez gizemsungu blocked sibelgulmez  Step 3... Logging out from account 'gizemsungu' gizemsungu logged out of account  Step 4... Logging into an account (username: sibelgulmez) sibelgulmez has logged into account  Step 5... Viewing gizemsungu's profile ! You have been blocked by gizemsungu  Step 6... Sending a message to gizemsungu ! You have been blocked by gizemsungu </pre>					
TU24	Check viewing inbox/outbox with logged in account	1.Create account 2.Login account 3.View inbox	Account: gizemsungu	The inbox is displayed.	As expected	Pass
	<pre> Step 14... Logging into another account (username: gizemsungu) gizemsungu has logged into account  Step 15... Checking number of messages in outbox There is/are 0 message(s) in outbox.  Step 16... Checking number of messages in inbox There is/are 1 message(s) in inbox.  Step 17... Viewing inbox ----- Message Id: 1 From: gokhankaya To: gizemsungu Message: This homework is too easy! ----- </pre>					

TU25	Check viewing inbox/outbox with not logged in account	1.Create account 3.View inbox	Account: sibelgulmez	The program gives a warning that you cannot view inbox without login.	As expected	Pass
	<pre> Step 17... Viewing inbox ----- Message Id: 1 From: gokhankaya To: gizemsungu Message: This homework is too easy! -----  ***Control of viewing inbox with not logged in account 'sibelgulmez' ! You must log in to view your message box </pre>					
TU26	Create an account with the same username	1.Create account	Account:gokhankaya2 Username: gokhankaya	The program warns that this username has been taken.	As expected	Pass
	<pre> Step 1... Creating accounts An account with username gizemsungu has been created. An account with username sibelgulmez has been created. An account with username gokhankaya has been created.  ***Control of creating account with same username. 'Account:gokhankaya2, username gokhankaya' ! This username has been taken, you can't get it again. </pre>					



## 5) RUNNING COMMAND AND RESULTS

### ✓ TestClass1

```
CSE222 - HW1
Welcome to Social Media Software

Step 1... Creating accounts
  An account with username gizemsungu has been created.
  An account with username sibelgulmez has been created.
  An account with username gokhankaya has been created.

Step 2... Logging into an account (username: sibelgulmez)
  sibelgulmez has logged into account

Step 3... Sharing two post
  sibelgulmez shared two posts.
    (PostId: 1) sibelgulmez: I like Java.
    (PostId: 2) sibelgulmez: Java the coffee...

  ***Control of adding post with not logged in account 'gokhankaya.addPost'
  ! You must be logged in to your account to share a post.

Step 4... Following gizemsungu and gokhankaya
  sibelgulmez followed gizemsungu
  sibelgulmez followed gokhankaya

  ***Control of another account in follow function 'gizemsungu.follow(sibelgulmez)'
  Before you can follow an account, you must log in to your account.

Step 5... Logging out from account 'sibelgulmez'
  sibelgulmez logged out of account

  ***Control of login out with not logged in account 'gizemsungu.logout'
  ! You are not already logged into your account

Step 6... Logging into another account (username: gokhankaya)
  gokhankaya has logged into account

Step 7... Viewing sibelgulmez's profile
-----
  UserId: 2
  Username: sibelgulmez
  Location: Istanbul
  Birthdate: 10.03.1995
  sibelgulmez is following 2 account(s) and has 0 follower(s).
  sibelgulmez is following: gizemsungu, gokhankaya.
  sibelgulmez has 2 posts.
-----

Step 8... Viewing sibelgulmez's posts
  (PostId: 1) sibelgulmez: I like Java.
  (PostId: 2) sibelgulmez: Java the coffee...

  ***Control of viewing posts with not view profile in account 'gokhankaya.viewPost(gizemsungu)'
  ! To view the posts, you must first view the user's profile

Step 9... Liking a post of sibelgulmez
  gokhankaya liked post1 of sibelgulmez

  ***Control of liking post which does not exist 'post4 of sibelgulmez'
  ! There is no such post

Step 10... Adding a comment on a post of sibelgulmez
  gokhankaya wrote a comment for post1 of sibelgulmez

Step 11... Following sibelgulmez and gizemsungu
  gokhankaya followed sibelgulmez
  gokhankaya followed gizemsungu

Step 12... Sending a message to gizemsungu
  gokhankaya sent message to gizemsungu

Step 13: Logging out from account 'gokhankaya'
  gokhankaya logged out of account

Step 14... Logging into another account (username: gizemsungu)
  gizemsungu has logged into account
```



Step 15... Checking number of messages in outbox  
There is/are 0 message(s) in outbox.

Step 16... Checking number of messages in inbox  
There is/are 1 message(s) in inbox.

Step 17... Viewing inbox

-----  
Message Id: 1  
From: gokhankaya  
To: gizemsungu  
Message: This homework is too easy!  
-----

Step 18... Viewing sibelgulmez's profile

-----  
UserId: 2  
Username: sibelgulmez  
Location: Istanbul  
Birthdate: 10.03.1995  
sibelgulmez is following 2 account(s) and has 1 follower(s).  
The followers of sibelgulmez are: gokhankaya.  
sibelgulmez is following: gizemsungu, gokhankaya.  
sibelgulmez has 2 posts.  
-----

Step19... Viewing sibelgulmez's posts

(PostId: 1) sibelgulmez: I like Java.  
(PostId: 2) sibelgulmez: Java the coffee...

Step 20... Viewing sibelgulmez's posts' interactions

-----  
(PostId: 1) sibelgulmez: I like Java.  
The post was like by the following account(s): gokhankaya,  
The post has 1 comment(s)...  
    Comment 1 : 'gokhankaya' said 'me too!'  
-----  
(PostId: 2) sibelgulmez: Java the coffee...  
The post has no likes.  
The post has no comment.  
-----

Step 21... Liking sibelgulmez's posts

gizemsungu liked post1 of sibelgulmez  
gizemsungu liked post2 of sibelgulmez

Step22... Viewing sibelgulmez's posts' interactions

-----  
(PostId: 1) sibelgulmez: I like Java.  
The post was like by the following account(s): gokhankaya, gizemsungu,  
The post has 1 comment(s)...  
    Comment 1 : 'gokhankaya' said 'me too!'  
-----  
(PostId: 2) sibelgulmez: Java the coffee...  
The post was like by the following account(s): gizemsungu,  
The post has no comment.  
-----

## ✓ TestClass2

```
CSE222 - HW1
Welcome to Social Media Software
***** This is Test Scenario 2 *****

=====Actions in the test scenario 1=====
Step 1... Creating accounts
  An account with username gizemsungu has been created.
  An account with username sibelgulmez has been created.
  An account with username gokhankaya has been created.

Step 2... Logging into an account (username: sibelgulmez)
  sibelgulmez has logged into account

Step 3... Sharing two post
  sibelgulmez shared two posts.
    (PostId: 1) sibelgulmez: I like Java.
    (PostId: 2) sibelgulmez: Java the coffee...

Step 4... Following gizemsungu and gokhankaya
  sibelgulmez followed gizemsungu
  sibelgulmez followed gokhankaya

Step 5... Logging out from account 'sibelgulmez'
  sibelgulmez logged out of account

Step 6... Logging into another account (username: gokhankaya)
  gokhankaya has logged into account

Step 7... Viewing sibelgulmez's profile
-----
  UserId: 2
  Username: sibelgulmez
  Location: Istanbul
  Birthdate: 10.03.1995
  sibelgulmez is following 2 account(s) and has 0 follower(s).
  sibelgulmez is following: gizemsungu, gokhankaya.
  sibelgulmez has 2 posts.
-----

Step 8... Viewing sibelgulmez's posts
  (PostId: 1) sibelgulmez: I like Java.
  (PostId: 2) sibelgulmez: Java the coffee...

Step 9... Liking a post of sibelgulmez
  gokhankaya liked post1 of sibelgulmez

Step 10... Adding a comment on a post of sibelgulmez
  gokhankaya wrote a comment for post1 of sibelgulmez

Step 11... Following sibelgulmez and gizemsungu
  gokhankaya followed sibelgulmez
  gokhankaya followed gizemsungu

Step 12... Sending a message to gizemsungu
  gokhankaya sent message to gizemsungu

Step 13: Logging out from account 'gokhankaya'
  gokhankaya logged out of account

Step 14... Logging into another account (username: gizemsungu)
  gizemsungu has logged into account

Step 15... Checking number of messages in outbox
  There is/are 0 message(s) in outbox.

Step 16... Checking number of messages in inbox
  There is/are 1 message(s) in inbox.

Step 17... Viewing inbox
-----
  Message Id: 1
  From: gokhankaya
  To: gizemsungu
  Message: This homework is too easy!
-----
```

Step 18... Viewing sibelgulmez's profile

```
-----
UserId: 2
Username: sibelgulmez
Location: Istanbul
Birthdate: 10.03.1995
sibelgulmez is following 2 account(s) and has 1 follower(s).
The followers of sibelgulmez are: gokhankaya.
sibelgulmez is following: gizemsungu, gokhankaya.
sibelgulmez has 2 posts.
-----
```

Step19... Viewing sibelgulmez's posts

```
(PostId: 1) sibelgulmez: I like Java.
(PostId: 2) sibelgulmez: Java the coffee...
```

Step 20... Viewing sibelgulmez's posts' interactions

```
-----
(PostId: 1) sibelgulmez: I like Java.
The post was like by the following account(s): gokhankaya,
The post has 1 comment(s)...
    Comment 1 : 'gokhankaya' said 'me too!'
-----
(PostId: 2) sibelgulmez: Java the coffee...
The post has no likes.
The post has no comment.
-----
```

Step 21... Liking sibelgulmez's posts

```
gizemsungu liked post1 of sibelgulmez
gizemsungu liked post2 of sibelgulmez
```

Step 22... Viewing sibelgulmez's posts' interactions

```
-----
(PostId: 1) sibelgulmez: I like Java.
The post was like by the following account(s): gokhankaya, gizemsungu,
The post has 1 comment(s)...
    Comment 1 : 'gokhankaya' said 'me too!'
-----
(PostId: 2) sibelgulmez: Java the coffee...
The post was like by the following account(s): gizemsungu,
The post has no comment.
-----
```

=====End of the actions in the test scenario 1=====

=====Test Scenario 2=====

Step 1... Logging into an account (username: gizemsungu)

```
! You are already logged into your account.
```

Step 2... Share a post

```
(PostId: 1) gizemsungu: Life is good!
```

Step 3... Share another post

```
(PostId: 2) gizemsungu: Java is the best
```

Step 4... Logging out from account 'gizemsungu'

```
gizemsungu logged out of account
```

Step 5... Logging into an account (username: sibelgulmez)

```
sibelgulmez has logged into account
```

Step 6... Viewing gizemsungu's profile

```
-----
UserId: 1
Username: gizemsungu
Location: Ankara
Birthdate: 13.01.1993
gizemsungu is following 0 account(s) and has 2 follower(s).
The followers of gizemsungu are: sibelgulmez, gokhankaya.
gizemsungu has 2 posts.
-----
```

Step 7... Liking a post of gizemsungu  
sibelgulmez liked post1 of gizemsungu

Step 8... Logging out from account 'sibelgulmez'  
sibelgulmez logged out of account

Step 9... Logging into an account (username: gokhankaya)  
gokhankaya has logged into account

Step 10... Viewing gizemsungu's profile

```
-----  
UserId: 1  
Username: gizemsungu  
Location: Ankara  
Birthdate: 13.01.1993  
gizemsungu is following 0 account(s) and has 2 follower(s).  
The followers of gizemsungu are: sibelgulmez, gokhankaya.  
gizemsungu has 2 posts.  
-----
```

Step 11... Adding a comment on a post of gizemsungu  
gokhankaya wrote a comment for post2 of gizemsungu

Step 12... Sending a message to gizemsungu  
gokhankaya sent message to gizemsungu

Step 13... Logging out from account 'gokhankaya'  
gokhankaya logged out of account

Step 14... Logging into an account (username: gizemsungu)  
gizemsungu has logged into account

Step 15... Viewing gizemsungu's profile

```
-----  
UserId: 1  
Username: gizemsungu  
Location: Ankara  
Birthdate: 13.01.1993  
gizemsungu is following 0 account(s) and has 2 follower(s).  
The followers of gizemsungu are: sibelgulmez, gokhankaya.  
gizemsungu has 2 posts.  
-----
```

Step 16... Reading the message from 'gokhankaya'

```
-----  
Message Id: 1  
From: gokhankaya  
To: gizemsungu  
Message: This homework is too easy!  
-----
```

```
-----  
Message Id: 2  
From: gokhankaya  
To: gizemsungu  
Message: Hello!  
-----
```



## ✓ TestClass3

```
CSE222 - HW1
Welcome to Social Media Software
***** This is Test Scenario 3 *****

=====Actions in the test scenario 1=====
Step 1... Creating accounts
  An account with username gizemsungu has been created.
  An account with username sibelgulmez has been created.
  An account with username gokhankaya has been created.

Step 2... Logging into an account (username: sibelgulmez)
  sibelgulmez has logged into account

Step 3... Sharing two post
  sibelgulmez shared two posts.
    (PostId: 1) sibelgulmez: I like Java.
    (PostId: 2) sibelgulmez: Java the coffee...

Step 4... Following gizemsungu and gokhankaya
  sibelgulmez followed gizemsungu
  sibelgulmez followed gokhankaya

Step 5... Logging out from account 'sibelgulmez'
  sibelgulmez logged out of account

Step 6... Logging into another account (username: gokhankaya)
  gokhankaya has logged into account

Step 7... Viewing sibelgulmez's profile
-----
  UserId: 2
  Username: sibelgulmez
  Location: Istanbul
  Birthdate: 10.03.1995
  sibelgulmez is following 2 account(s) and has 0 follower(s).
  sibelgulmez is following: gizemsungu, gokhankaya.
  sibelgulmez has 2 posts.
-----

Step 8... Viewing sibelgulmez's posts
  (PostId: 1) sibelgulmez: I like Java.
  (PostId: 2) sibelgulmez: Java the coffee...

Step 9... Liking a post of sibelgulmez
  gokhankaya liked post1 of sibelgulmez

Step 10... Adding a comment on a post of sibelgulmez
  gokhankaya wrote a comment for post1 of sibelgulmez

Step 11... Following sibelgulmez and gizemsungu
  gokhankaya followed sibelgulmez
  gokhankaya followed gizemsungu

Step 12... Sending a message to gizemsungu
  gokhankaya sent message to gizemsungu

Step 13: Logging out from account 'gokhankaya'
  gokhankaya logged out of account

Step 14... Logging into another account (username: gizemsungu)
  gizemsungu has logged into account

Step 15... Checking number of messages in outbox
  There is/are 0 message(s) in outbox.

Step 16... Checking number of messages in inbox
  There is/are 1 message(s) in inbox.

Step 17... Viewing inbox
-----
  Message Id: 1
  From: gokhankaya
  To: gizemsungu
  Message: This homework is too easy!
-----
```



Step 18... Viewing sibelgulmez's profile

```
-----
UserId: 2
Username: sibelgulmez
Location: Istanbul
Birthdate: 10.03.1995
sibelgulmez is following 2 account(s) and has 1 follower(s).
The followers of sibelgulmez are: gokhankaya.
sibelgulmez is following: gizemsungu, gokhankaya.
sibelgulmez has 2 posts.
-----
```

Step19... Viewing sibelgulmez's posts

```
(PostId: 1) sibelgulmez: I like Java.
(PostId: 2) sibelgulmez: Java the coffee...
```

Step 20... Viewing sibelgulmez's posts' interactions

```
-----
(PostId: 1) sibelgulmez: I like Java.
The post was like by the following account(s): gokhankaya,
The post has 1 comment(s)...
    Comment 1 : 'gokhankaya' said 'me too!'
-----
(PostId: 2) sibelgulmez: Java the coffee...
The post has no likes.
The post has no comment.
-----
```

Step 21... Liking sibelgulmez's posts

```
gizemsungu liked post1 of sibelgulmez
gizemsungu liked post2 of sibelgulmez
```

Step22... Viewing sibelgulmez's posts' interactions

```
-----
(PostId: 1) sibelgulmez: I like Java.
The post was like by the following account(s): gokhankaya, gizemsungu,
The post has 1 comment(s)...
    Comment 1 : 'gokhankaya' said 'me too!'
-----
(PostId: 2) sibelgulmez: Java the coffee...
The post was like by the following account(s): gizemsungu,
The post has no comment.
-----
```

=====End of the actions in the test scenario 1=====

=====Test Scenario 3=====

Step 1... Logging into an account (username: gizemsungu)

```
! You are already logged into your account.
```

Step2... Blocking to the account of sibelgulmez

```
gizemsungu blocked sibelgulmez
```

Step 3... Logging out from account 'gizemsungu'

```
gizemsungu logged out of account
```

Step 4... Logging into an account (username: sibelgulmez)

```
sibelgulmez has logged into account
```

Step 5... Viewing gizemsungu's profile

```
! You have been blocked by gizemsungu
```

Step 6... Sending a message to gizemsungu

```
! You have been blocked by gizemsungu
```