ÇANKAYA UNIVERSITY • CENG 382 WEB DEVELOPMENT

FINAL PROJECT REPORT

Project Name: CANBOOKGRAM

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1.System Definition

The CANBOOKGRAM is an online social media platform for Cankaya University. CANBOOKGRAM provides a communication line between people by simply adding one to another as a friend. The gets activated firstly when the user enters to the site. Users who enters to the system can add other people who are already registered to the system as a friend. Users who have become friends can message each other and see the history of the messages. In addition to this, users can share posts with their friends. Submitted posts can be liked or disliked by friends of the user via using a button. Moreover, friends of the user can also comment on a post of the user.

2.Database

2.1. Limitations and Requirements

As can be seen from Figure 1,
- In the database, I assume that a Person can have more than one friends.
- Every user can have more than one post but every post has only one post type. There are two post types which are text and photo.
- Every post can have more than one comment. However, every comment belongs to only one person. In addition, one person can make more than one comments.
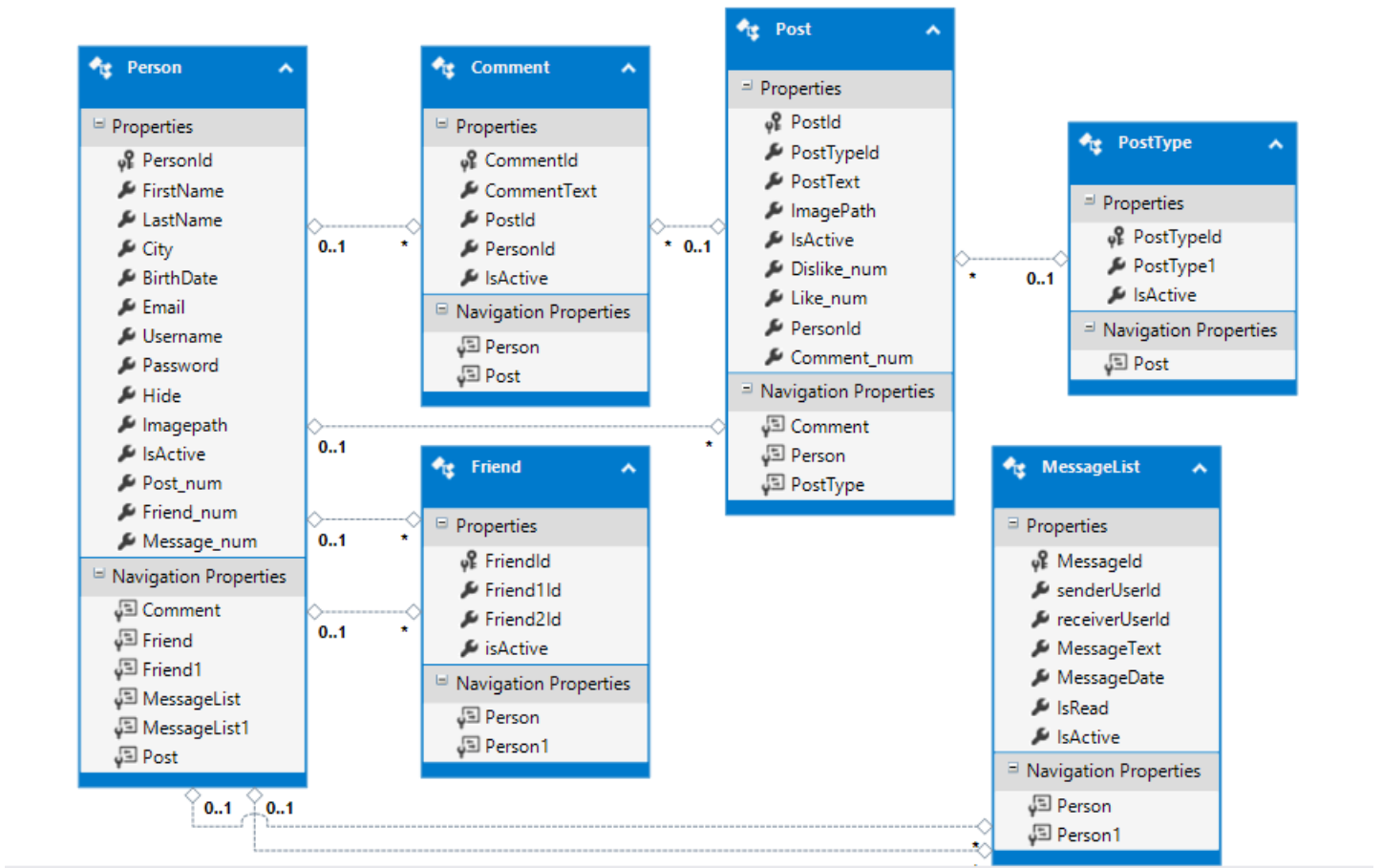- Users can have more than one message.

Figure 1: Database for CANBOOKGRAM

3.Program Design

3.1. Flow Chart

        As can be seen from Figure 2; firstly, users are sent to homepage when they enter to the system. They can enter to the system via using their account information or they can go to register page to register to the system.
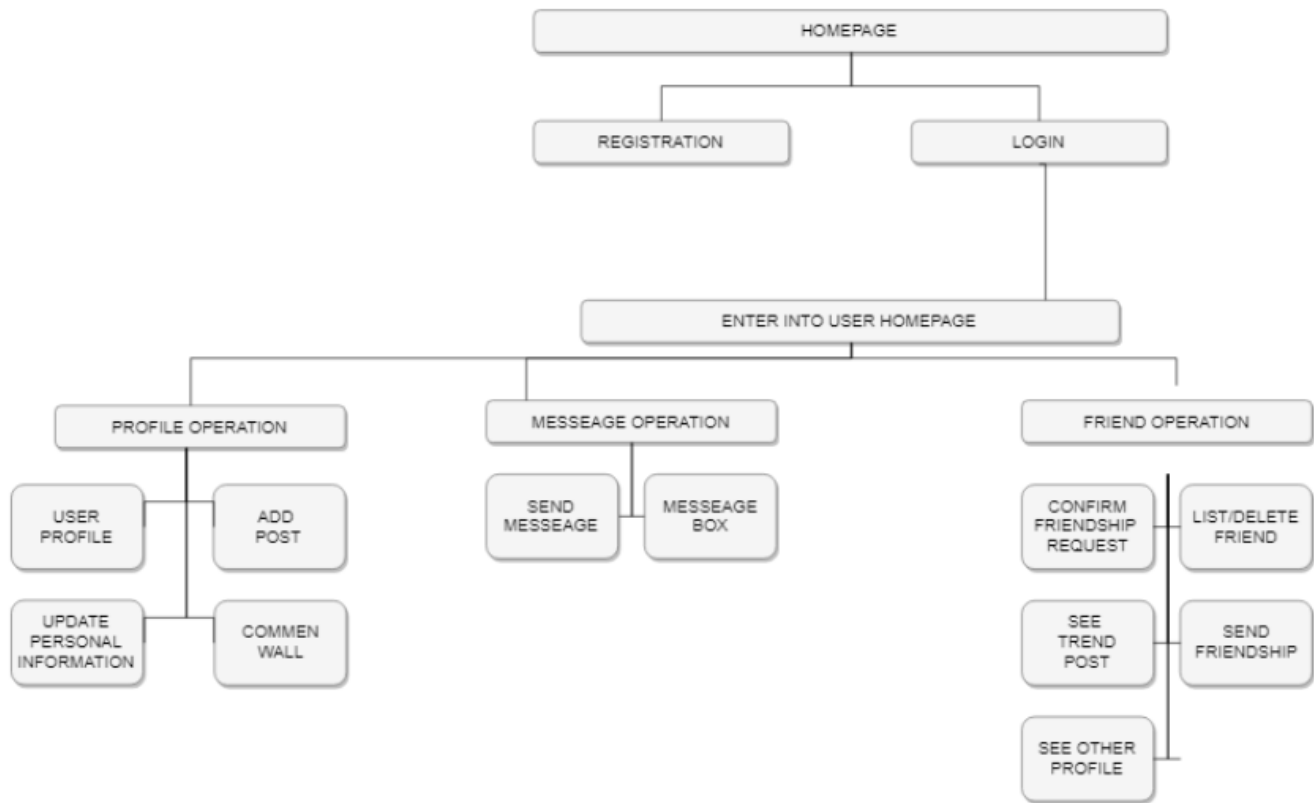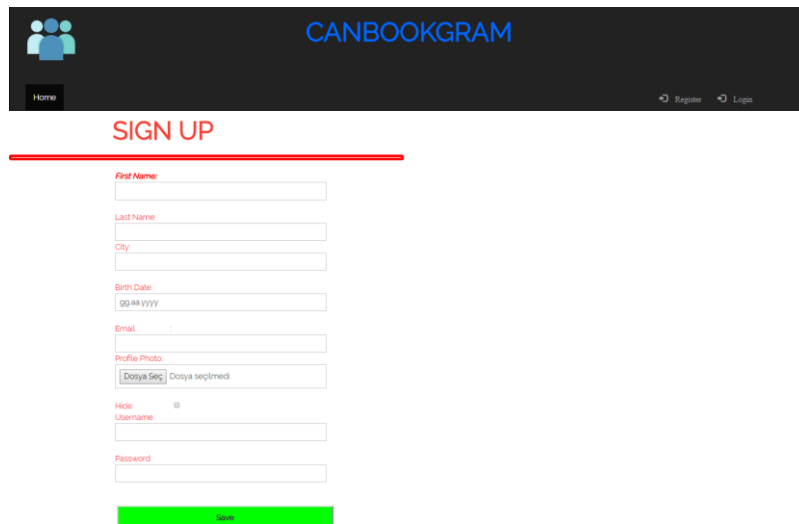

Figure 2: CANBOOKGRAM Flow Chart

        Users who login via using login page can use any of 3 different operation which are profile operation, message operation and friend operation.
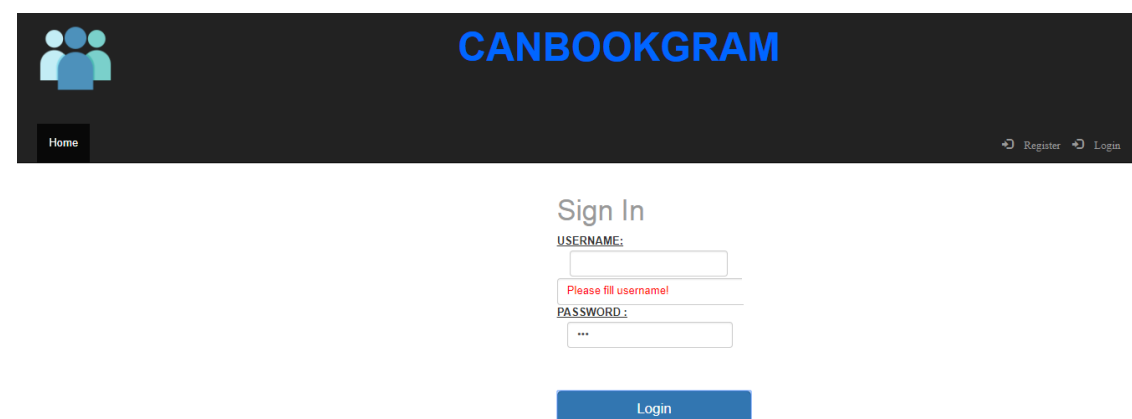
3.1.Project Results

On the Register page, as can be seen from Figure 3, user needs to fill required boxes to sign up and become a Canbookgram member. While a user is signing up, the password that the user entered to textbox is stored as encrypted with using hashing.

Figure 3: Register Page

On the login page, users can login via using their username and password. The password that user is checked whether it matches with the one in database or not. If the passwords match users can log in. According to the user's information that he/she used while logging in, web services is activated and user's name and surname is shown in the user homepage as "Welcome NAME and SURNAME". In addition, on web service user's personID is also stored in database. By doing this, system can reach to the personal information of the user easier in the next web pages. Login page is shown as detailed in Figure 4.

Figure 4: Login Page

On the profile operation menu navbar, the person can use 4 different functions. Firstly, use can add posts. To add a post the page used is shown in Figure 5. User can submit post on both post types which are text and photo. After using the required button, the post is added to the system. Added post can be seen on common wall of user's friends and user's own profile page. Added posts are shown in user's profile as Figure 6.
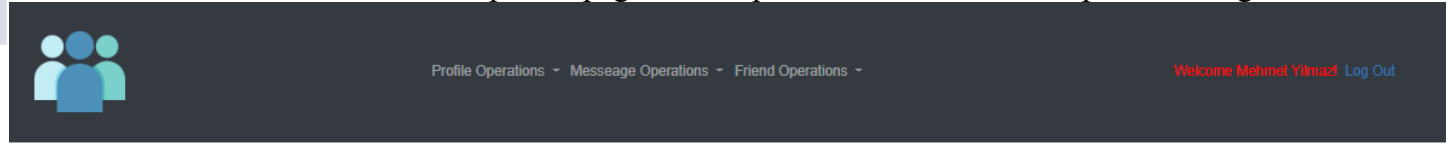

Figure 5: Add Post Page
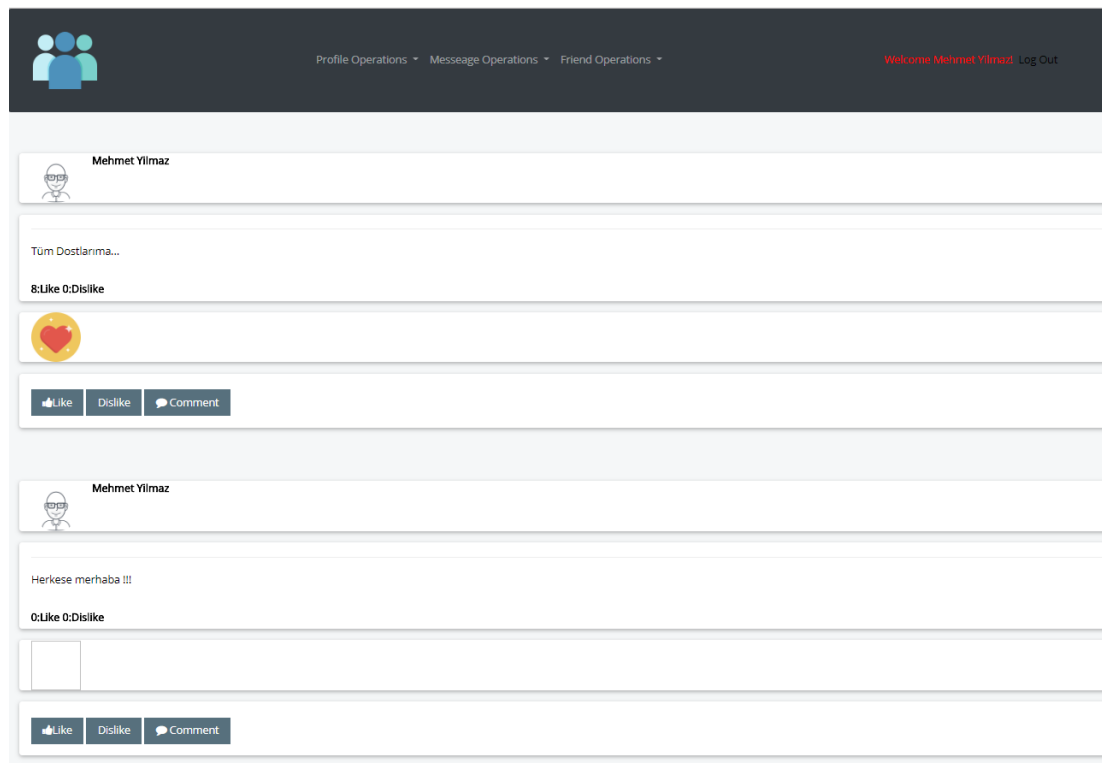
Figure 6: User Profile Page

If a user wants to see his/her friends posts, he/she is sent to Common Wall which is shown in Figure 7. On this page, user can like or dislike the posts via using buttons. Moreover, total likes and dislikes are shown on common wall. On common wall only users who are friends can see each other's posts.
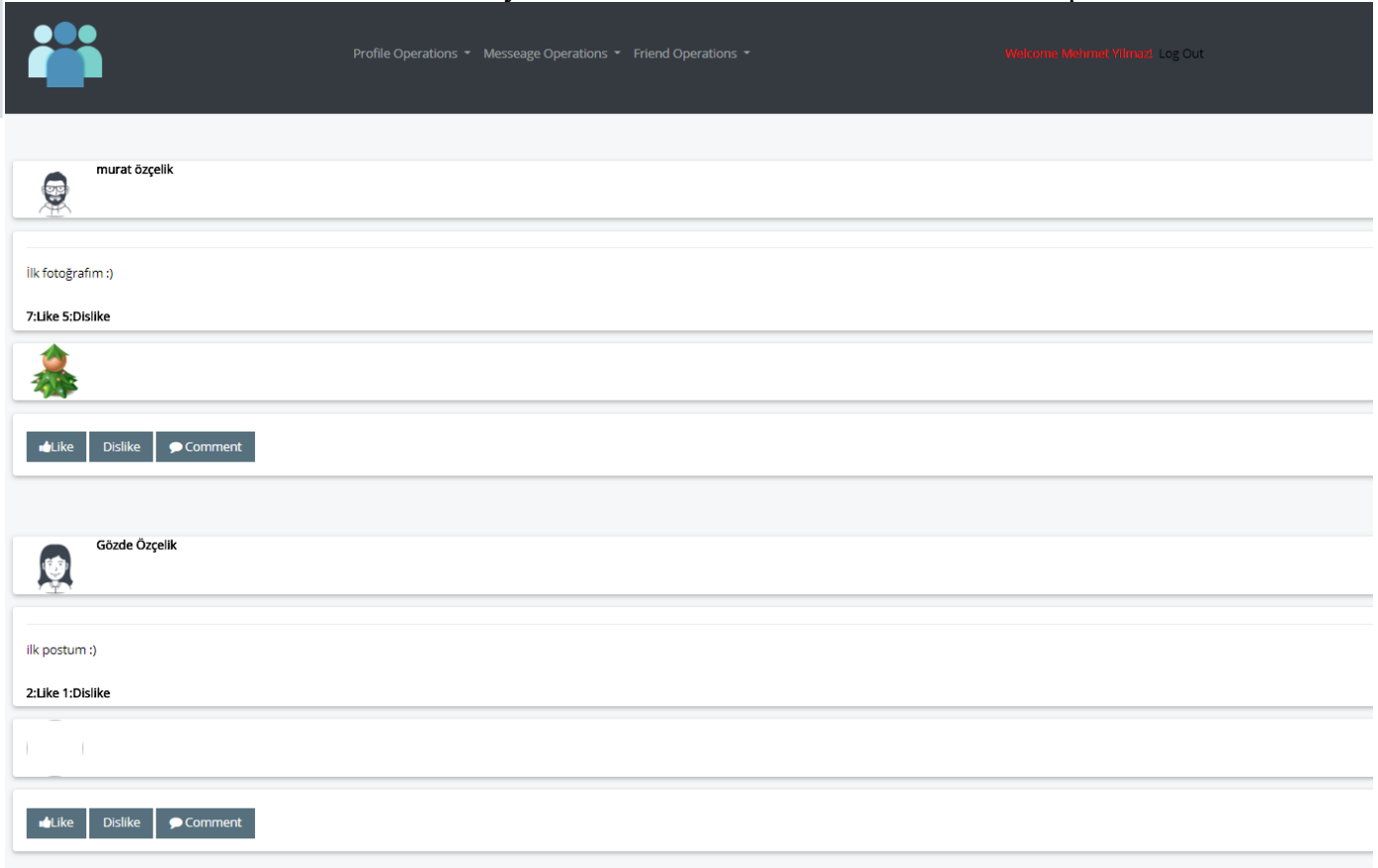

Figure 7: Common Wall Page

Moreover, user can read the comments of his/her friends to his/her post and also comment to it. Example comment list is shown in Figure 8.
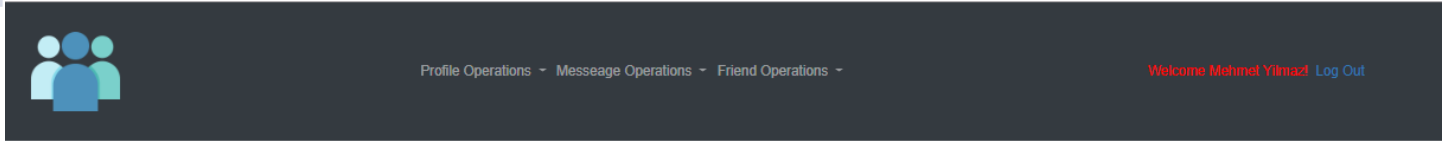

Figure 8: Comment Page Example

Lastly, on profile operation tab, personal information can be updated. To do this process, in Gridwiev, personID is used. With personID, only the information which is gathered via using web service on the login page. With Gridwiev only logged in user's information is uploaded to the system. On Figure 9, a user is trying to update the City and the e-mail of his/her.

Figure 9: Update Personal Information Page

In the message operation, user can user 2 operations. Firstly, user can message to anyone from his/her friend list. CANBOOKGRAM only lets to message people who are added as friends. Therefore, to help user while selecting who to message, drop down list is used. To send a message to a selected user in drop down list, Index Event function is used. Therefore, a message is sent to the right user. On Figure 10, a message send window can be seen

Figure 10: Send Message Page

Second message operation provides listing the messages. User can see the messages as listed below of the sender name. When a message is delivered to a user, user can see the sender name on drop down list. Therefore, with using Selected Index Event, every single message between users can be shown on the screen. For example, inbox page is shown on Figure 11. Every message is stored in database until the user deletes them.

Figure 11: MessageBox Example

Friendship operation lets user use 5 different functions. Firstly, user accepts friend requests on friendship page with using confirm button as shown in Figure 12. If a user wants to accept the friend request, he/she needs to check the check box and click on save button. If not, a friend request is accepted as declined.
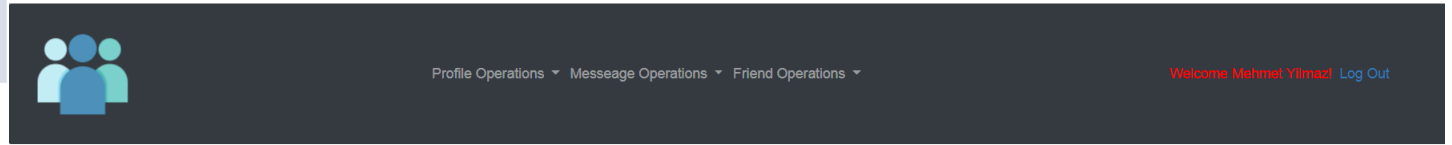

Figure 12: Confirm/Reject Friendship Request Example

On Person List Friend tab, user can who are his/her friends on gridwiev. If there is someone who the user needs to end friendship, the user can use this page. An example friend page is shown on Figure 13.
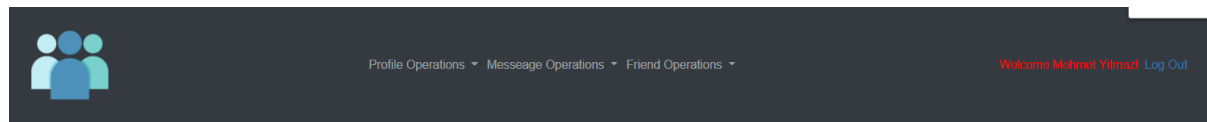
Photo	Name	Name	Operation
	murat	özçelik	
	Gözde	Özçelik	

Figure 13 :List/ Delete Friend

Friend Operation tab's 3. Function is seeing Trend Posts. 5 posts which are trend between users friend list is shown by system. To accept a post as a trend, the number difference between likes and dislikes is checked. Maximum 5 posts are posted as trend. If there are less than 5 posts that are posted by user's friends, the trend posts number may vary. An example trend page is shown on Figure 14.
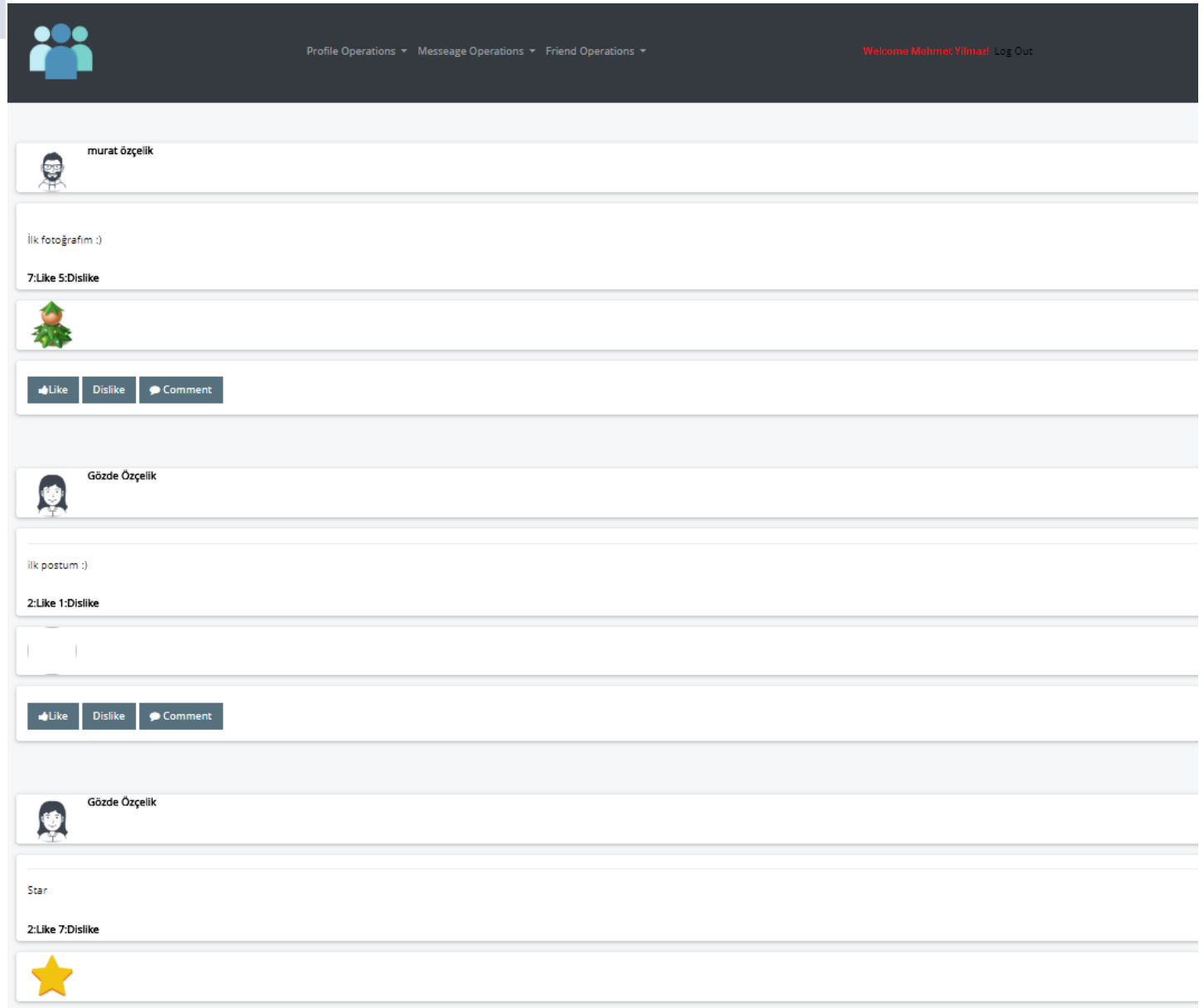

Figure 14: Trend Post Page Example

Send Friendship page, every single registered user is shown with using gridwiev. However, it does not add them to the friend list. The purpose is to send a friend request via using this page. Already added people are not shown in this page. User clicks on add friend button and if the user he/she added confirms, they become friends. Otherwise, the friend request is declined. On Figure 15, an example Send Friend Request Page is shown.

Photo	Name	Name	Operation
	Ayşe	Şimşek	
	Ece	İkinci	
	Pakize	Çınar	
	Can	İncedere	
	Ali	Atalı	
	Beyza	Toprak	
	Necip	Adıgüzel	

Figure 15: Send Friendship Page Example

Lastly, on friend operation tab, user can search his/her friends. Users of the system is listed on drop down list. After selecting the friend that wanted to see, system is searched via using Selected Index Event function. On Figure 16 an example output is shown.
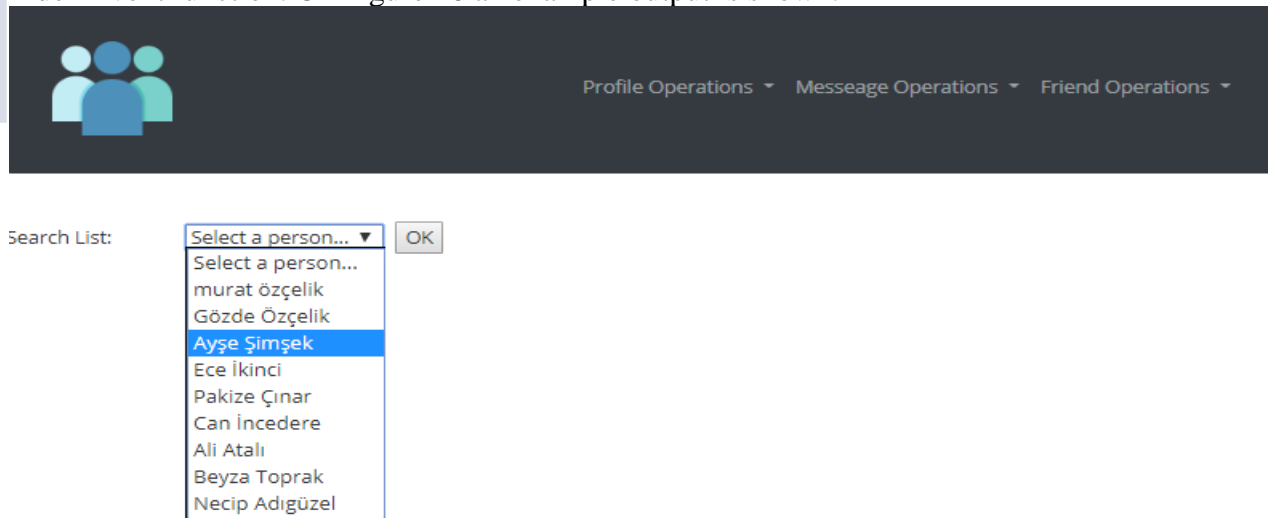

Figure 16: See Other People Page

If the user that wanted to seen is a friend of the user, profile is directly shown. If they are not friends, then personal information of the user is shown. If the user whose profile is trying to be seen is checked hide profile button, then other non-friend users cannot see the profile page and face with an error message. An example of error message is shown on Figure 17. IN addition, if the hide button is not checked, the user can see the profile directly.
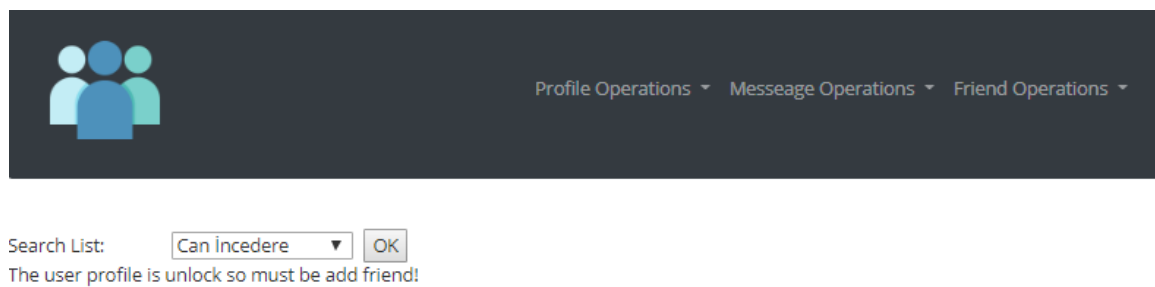

Figure 17: Hide Profile Warning Message Example

Conclusion

CANBOOKGRAM is a social media application where, people can communicate with each other. User can communicate via sending messages and submitting posts.