# ${\bf MySocial Book}$

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CENC	1004: Introduction to Object Oriented Programming	Spring 202
	MIDTERM ASSIGNME	NT
Instru Out I	ct : Classes, objects, encapsulation, inheritance, and polymorictor: Dr. Selim Yılmaz (selimyilmaz@mu.edu.tr) & Dr. Özg Date: 05/03/2021 23:59:59 Date: 05/17/2021 23:59:59	phism. ür Kılıç (ozgurkilic@mu.edu.tr)
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In the integral clear Before	e course of Introduction to Object Oriented Programming ity very seriously and ask you to do as well. That's why, statements that defines the policies of this assignment e reading this assignment booklet, please first read the ble violation on academic integrity.	this page is dedicated to som, and hence, will be in force
	This assignment must be done individually unless stated	otherwise.
•	You are encouraged to discuss with your classmates about these discussions should be carried out in an abstract we code (in whole or in part) of someone else, cannot share with someone else either.	vay. That is, you cannot cop
•	The previous rule also holds for the material found on the has been written by someone else.	e web as everything on the we
	You must not look at solution sets or program code from	n other years.
	You cannot share or leave your code (in whole or in part	t) in publicly accessible areas
•	You have to be prepared to explain the idea behind the submit.	solution of this assignment yo
•	Finally, you must make a copy of your solution of this as end of this semester.	ssignment and keep it until the
par of I	ave carefully read every of the statements regarding this t of the official disciplinary regulations of Muğla Sitki Ko Higher Education. By signing this document, I hereby decl his assignment to prevent any violation on academic inte	man University and the Cour are that I shall abide by the ru
	Signature .	A. Colemen

Figure 1: HERBY

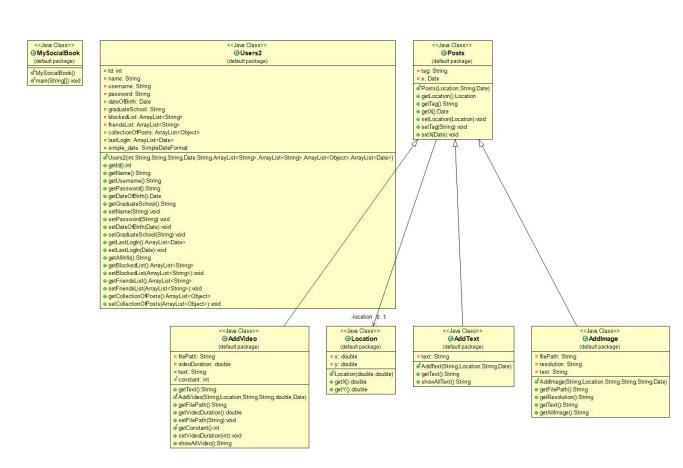


Figure 2: UML DIAGRAM1

#### 1 USERS2.java

This java file includes all parameters that a user has to have. Every User in the system has a unique userID(integer), a name(string), a unique username(string), a password(string), a date of birth(Date), information about school (string), a last log-in date(Date), a collection of friends(ArrayList), a collection of blocked users(ArrayList), and a collection of posts(ArrayList(Object)). I created attributes for all those informations. All those informations can be considered as personal informations so, I have made them all private to keep those informations safe. Also, I created getAllInfo()(String) method in order to get all information about the user.

#### 1.1 Users2 Getter and Setter methods

In java if you want to access a private information you have to use getter and setter methods. I used getter method in order to get the users' private information and used setter method to change that private informations. I didn't create getter and setter method for Id and username because these variables cannot be changed later.

#### 2 Posts.java

I created this java class in order to add a post for a user. This class also is a super class and it has three subclass: AddImage,AddVideo,AddText.This class has three attributes which also in comman all posts. Location from location class, x(Date),tag(String).These attributes also private and I created getter methods to get these variables and setter methods to change these variables.

#### 3 AddText.java

I created this class to add a text post to a user. This class extends Posts class. In addition the post class attributes, this class also have an extra private attribute:text(String). I also used getText() method to reach the text variable and I also created a method showAllText()(String) to get the all information about that text.

#### 4 AddImage.java

I created this class to add a Image post for a user. This class extends Posts class. In addition, it has three attributes: text(String), filePath(String), resolution(String). These attributes also private. I created getter methods to get these variables. Also I created a method getAllImage()(String) to get the all informations about the Image post.

#### 5 AddVideo.java

I created this class to add video post to a user. This class also extends Posts class. In addition, it has three attributes: text(String), filePath(String), videoDuration(double). These attributes also private. I created getter methods in order to access these private attributes. Furthermore, I created a constant variable that named constant and used final keyword in order to prevent changing that constant variable later . Also I created getConstant()(integer) method in order to get that constant variable and also create showAllVideo()(String) method in order to get the all information about that Video Post.

#### 6 Location.java

I created this class in order to get the Posts' locations. This class has two variables: x(double) and y(double) and both of them private. I created getter method in order to get these private variables.

### 7 MySocialBook.java

I created this class to run our program. I created main class here. Also I read the files here. This class shows the output of our codes'. In this class I created an Arraylist (Arraylist

) in order to store the users who are registered the system. I used this arraylist to get all neccessary information about the users that signed-in or registered the system. This class read the files and save the users by using the Users2 class. Also I created an Array that named "list" to split the lines with "tab" character. Furthermore, additionally I commented MySocialBook.java.

#### 8 The contribution and the general idea

In the early days of the project I got stressed and got panic because I had no idea how to build this project. As time passes, I started building the project in my mind and I got handle my fears. In the beginnig, actually I hated this project but when I finished the project I was so happy and so glad to get this project. By doing this project, I have learned the meaning and the function of "private" keyword in java also how to use Arraylist in java. Furhermore, I practiced and revised polymorphism and inheritance.

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