

## OBJECT ORIENTED PROGRAMMING SEMESTER ASSIGNMENT

- Firstly, we created three classes. Administrator class, User class and UserPanel class.



### User Class

- We have created a scanner class to get the user value and we have defined fields to be used in User class.
- We have created an arraylist class to hold values to use in the user class.

```
private ArrayList<String> postList = new ArrayList<String>();  
private static ArrayList<String> timeLine = new ArrayList<String>();  
private ArrayList<String> favPost = new ArrayList<String>();  
private ArrayList<User> followed_user = new ArrayList<User>();  
private ArrayList<String> inbox = new ArrayList<String>();  
private ArrayList<String> outbox = new ArrayList<String>();  
private ArrayList<String> notBox = new ArrayList<String>();
```

- In the User panel we have typed the Functions used through the user.

1. `public void showInbox() {`
2. `public void showOutbox() {`
3. `public void sendPost() {`
4. `public void showTimeline() {`
5. `public void sendMessage(User user1, User user2) {`
6. `public void notAdd() {`
7. `public void notBox() {`

```
8.     public void followed_show() {  
9.     public void follow(User user) {  
10.    public void follow1(User user) {
```

## Inner Classes

- Message class will be used through this panel

```
public class Message {
```

```
    Administrator ad = new Administrator();
```

We are creating an object to retrieve the current date from the administrator class.

showInbox method:

```
public void showInbox() {  
  
    System.out.println("Welcome to Inbox");  
    if (inbox.size() == 0) {  
  
        System.out.println("Your inbox is empty...");  
  
    }  
  
    for (String s: inbox) {  
  
        System.out.println(s + "\n");  
  
    }  
  
}
```

If your inbox is empty, your inbox will give you a message "Your inbox is empty" . if something has been sent, it will be printed on the screen.

showOutbox method:

```
public void showOutbox() {  
    System.out.println("Welcome to Outbox");  
    if(outbox.size()==0){  
        System.out.println("Outbox is empty...");  
    }  
    for(String s: outbox){  
        System.out.println(s+"\n");  
    }  
}
```

If the outbox is empty, your inbox will give you a message "Outbox is empty". If something has been sent, it will be printed on the screen.

- post class; we defined a value named name from administrator class

```
public class Post {  
  
    private String postSahibi;  
    private String post;  
    private ArrayList<String> likes = new ArrayList<String>();  
    Administrator ad = new Administrator();  
  
    public Post(String postSahibi) {  
        this.postSahibi = postSahibi;  
    }  
}
```

SendPost method:

```
public void sendPost() {  
  
    String date = ad.date();  
    System.out.println("Your post: ");  
    post = s.nextLine();  
    timeLine.add(postSahibi+": "+ post+"\t"+" Date: "+date);  
    postList.add(post+"\t Date: "+ date);  
    System.out.println(postSahibi+": "+ post+"\t"+" Date: "+date);  
}
```

send Post method with information for the screen printed and adds postList array and timeLine. Also it print on the screen with name.

Like method: saves posts that the user likes

```
public void like(String like){  
  
    likes.add(postSahibi);  
    favPost.add(like);  
}
```

ShowTime method:

```
public void showTime() {  
  
    for(String s: timeLine){  
        System.out.println(s+"\n");  
    }  
}
```

values on timeLine will be printed on the screen with showTime

finally, the constructor's set and get methods are written.

### Administrator Class

For the birthday message, we created the administrator class. compared current day information with birth day.

```
import java.text.SimpleDateFormat;
import java.util.Date;

public class Administrator {

    Date now = new Date();

    SimpleDateFormat ft = new SimpleDateFormat("dd/MM");

    public String date(){

        return now.toLocalString();

    }

    public String birtDay(){

        return ft.format(now);

    }

}
```

---

## UserPanel Class

- We have created a scanner class to get the user value and we have defined fields to be used in UserPanel class.
- We have created an arraylist class to hold values to user in the user class.

```
private static ArrayList<User> users = new ArrayList<User>();
```

- Default users added

```
public static void main(String[]args) {  
  
    users.add(new User("Burak", "Burak@hotmail.com", "26/05/1994", "İzmir",1));  
    users.add(new User("Damla", "Damla@hotmail.com", "26/05/1996", "İzmir",2));  
}
```

We created and checked objects from the Administrator class for birthday check.

```
public static void run(User user) {  
    Administrator ad = new Administrator();  
    String date = ad.birtDay();  
  
    if(user.getBirth().equals(date)){  
        user.notAdd();  
    }  
}
```

- program working design

```

System.out.println("Wellcome " + user.getName() + ", please choose a operation which you want; ");
System.out.println("1. Show Inbox\n"
    + "2. Show Outbox\n"
    + "3. Send Message\n"
    + "4. Share Post\n"
    + "5. Show Timeline\n"
    + "6. Show Contact list\n"
    + "7. Show Notifications\n"
    + "8. Follow People\n"
    + "9. Exit");

```

- while and switch case block based on user's choices.

```

boolean dongu = false;
while (!dongu) {

    System.out.print(" Your Choise: ");
    int choise = s.nextInt();

    s.nextLine();

    switch (choise) {
        case 1:

```

How Does a Program Work?

-Follow the people.

```

Output - SocialNetwork (run)
run:
Wellcome Burak, please choose a operation which you want;
1. Show Inbox
2. Show Outbox
3. Send Message
4. Share Post
5. Show Timeline
6. Show Contact list
7. Show Notifications
8. Follow People
9. Exit
Your Choise: 8
Choose what you want to follow.
1.Burak
2.Damla
3.Mustafa
4.Mert
5.Meltem
6.Utku
7.Gökhan
8.Tugce
9.Cagla
10.Nazlı
Follow that id:
2
Damla was followed...
Your Choise:

```

-Send a message

```
Your Choise: 3
Your Contact List
Contact list: 1
2.Damla
Select the person's number you want to send the message to.
2
Mesajınızı giriniz:
Hello...
Your message was successfully sent.
Your Choise:
```

-Show inbox

```
-
Wellcome Damla, please choose a operation which you want;
1. Show Inbox
2. Show Outbox
3. Send Message
4. Share Post
5. Show Timeline
6. Show Contact list
7. Show Notifications
8. Follow People
9. Exit
Your Choise: 1
Welcome to Inbox
Hello...      From Person: Burak      28.May.2019 13:26:23

Your Choise: |
```



-Send post and timeline

```
Output - SocialNetwork (run)
run:
Wellcome Burak, please choose a operation which you want;
1. Show Inbox
2. Show Outbox
3. Send Message
4. Share Post
5. Show Timeline
6. Show Contact list
7. Show Notifications
8. Follow People
9. Exit
Your Choise: 4
Your post:
Hello everyone
Burak: Hello everyone          Date: 28.May.2019 13:28:19
Your Choise: 9
Logout...
Wellcome Damla, please choose a operation which you want;
1. Show Inbox
2. Show Outbox
3. Send Message
4. Share Post
5. Show Timeline
6. Show Contact list
7. Show Notifications
8. Follow People
9. Exit
Your Choise: 4
Your post:
Hello Burak
Damla: Hello Burak            Date: 28.May.2019 13:29:14
Your Choise: 5
Burak: Hello everyone          Date: 28.May.2019 13:28:19
Damla: Hello Burak            Date: 28.May.2019 13:29:14
Your Choise:
```

## UML Diagram

