CSE212

SOFTWARE DEVELOPMENT METHODOLOGIES

SPRING 2024

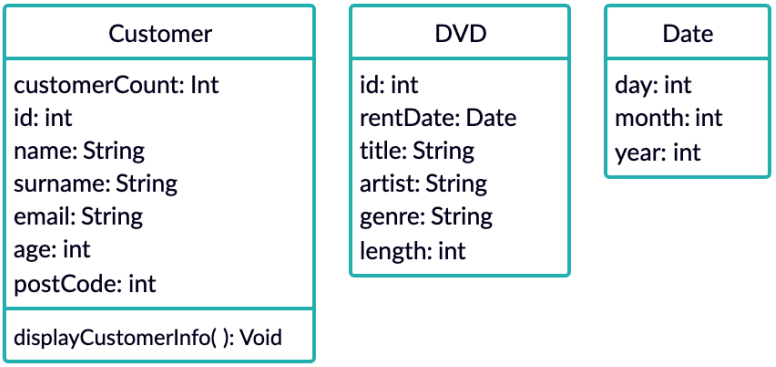
LABWORK 2 - SECTION 1 & 2

Below, you can find the description of your labwork for today. You can also find the expected output of this code in the Application Walkthrough section.

You are going to improve your Rental System on top of your previous week's labwork.

Customer class is required to have a *static* member called *customerCount* indicating the number of customers created so far. Also, you should modify the access modifier of instance variables to ***private***. It will also have a *displayCustomerInfo()* method to display the information about the customer. (*Hint*: To change the value of a private instance variable you need to use *setter* and *getter* methods.)

This week, you will create a *DVD* class to hold the dvd information which will have *id, rentDate, title, artist, genre, length*. Also, you will create a *Date* class which holds the information of date in terms of *day*, *month* and *year*.



You are going to create a simple system that display information about the customers and loop as follows;

1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit

The user is required to enter information (*id, name, surname, email, age, postCode)* about three customers beforehand. Then the application should display a menu where the user selects 1, 2, 3, 4 or 0.

When the user selects 1st option, the program will display the information about the first customer. If the 2nd option is selected, it will display the information about the second customer. If the 3rd option is selected, it will display the third customer's information. If the 4th

option is selected, it will display the count of customers. Lastly, when the 0^{th} option is entered, the application will quit the loop and the program will terminate.

Application Walkthrough

```
Customer #1
Enter id
1
Enter name
John
Enter surname
Smith
Enter age
20
Enter postal code
34724
Enter email
johnsmith@gmail.com

Customer #2
Enter id
2
Enter name
Megan
Enter surname
Brown
Enter age
30
Enter postal code
31411
Enter email
megan_brown@gmail.com

Customer #3
Enter id
3
Enter name
Eric
Enter surname
Bailey
Enter age
35
Enter postal code
32312
Enter email
ericbailey85@hotmail.com


1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit
1

id:1
name:John
surname:Smith
age:20
postal code:34724
```

```
email:johnsmith@gmail.com

1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit
2

id:2
name:Megan
surname:Brown
age:30
postal code:31411
email:megan_brown@gmail.com

1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit
3

id:3
name:Eric
surname:Bailey
age:35
postal code:32312
email:ericbailey85@hotmail.com

1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit
4

Number of Customers:4

1. Display Customer #1
2. Display Customer #2
3. Display Customer #3
4. Display Number of Customers
0. Exit
0
```