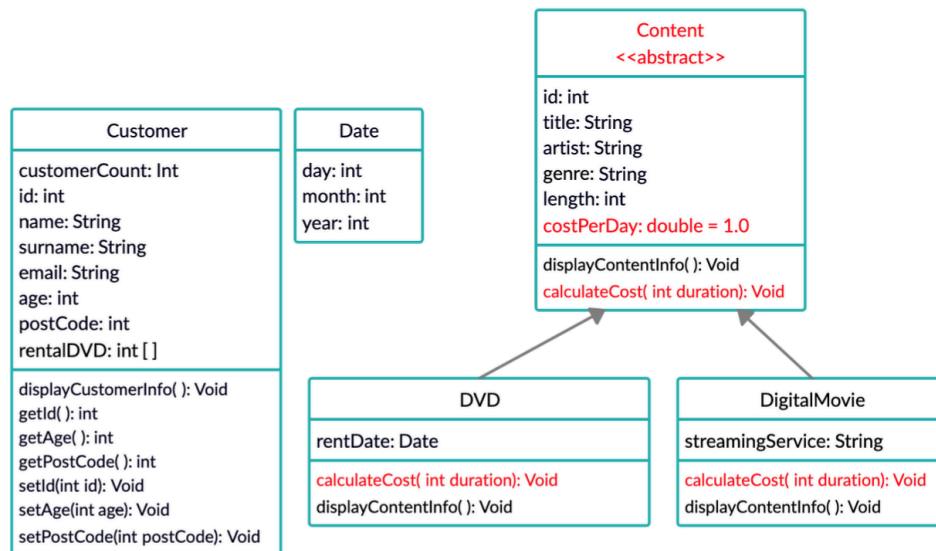


CSE212
SOFTWARE DEVELOPMENT METHODOLOGIES
SPRING 2024
LABWORK 6 - SECTION 1 & 2

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 by incorporating Abstract classes.

Content class should be updated **abstract** and `calculateCost()` will be its **abstract** method. Hence, you need to modify your `DigitalMovie` and `DVD` classes.



Additionally, the rental system starts to apply a new daily pricing policy according to the duration of rental time. So, you need to update `costPerDay` variable by following that pricing table:

Content Type	Duration	up to 7 days	up to 14 days	up to 30 days
DVD		\$1.0	\$1.2	\$2.0
Digital Movie		\$1.0	\$0.8	\$0.5

Application Walkthrough

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

1

Enter id

1000

Enter name

John

Enter surname

Blake

Enter age

34

Enter postal code

34724

Enter email

johnblake@gmail.com

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

1

Enter id

1001

Enter name

Mary

Enter surname

Jane

Enter age

20

Enter postal code

34555

Enter email

mary_jane@yahoo.com

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

2

Enter id

10

Enter title

The Lord of the Rings: The Fellowship of the Ring

Enter artist

Elijah Wood

Enter length

178

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

3

Enter genre

Thriller

Enter id

11

Enter title

Parasite

Enter artist

Song Kang-ho

Enter length

132

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

4

Enter id

12

Enter title

Spenser Confidential

Enter artist

Mark Wahlberg

Enter length

111

Enter streaming service:

Netflix

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

5

Enter customer id

1000

Enter DVD id

10

Enter day

7

Enter month

2

Enter year

2020

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

6

Enter customer id

1000

id:1000

name:John

surname:Blake

age:34

postal code:34724

email:johnblake@gmail.com

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

7

Enter Content id

12

id:12

title:Spenser Confidential

artist:Mark Wahlberg

genre:Other

length(in minutes):111

Streaming Service:Netflix

How long would you like to rent that Digital Movie?

20

The rental cost for 20 days is \$10.0

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information

7. Display Content Information
8. Display number of customers.
0. Exit

7

Enter Content id

11

id:11
title:Parasite
artist:Song Kang-ho
genre:Thriller
length(in minutes):132

How long would you like to rent that DVD?

11

The rental cost for 11 days is \$13.2

1. Create a new Customer
2. Create a new DVD
3. Create a new DVD with genre
4. Create a new Digital Movie
5. Rent a DVD
6. Display Customer Information
7. Display Content Information
8. Display number of customers.
0. Exit

0