

GIT Department of Computer Engineering
CSE 222/505 - Spring 2021
Homework 1 Report

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1. SYSTEM REQUIREMENTS

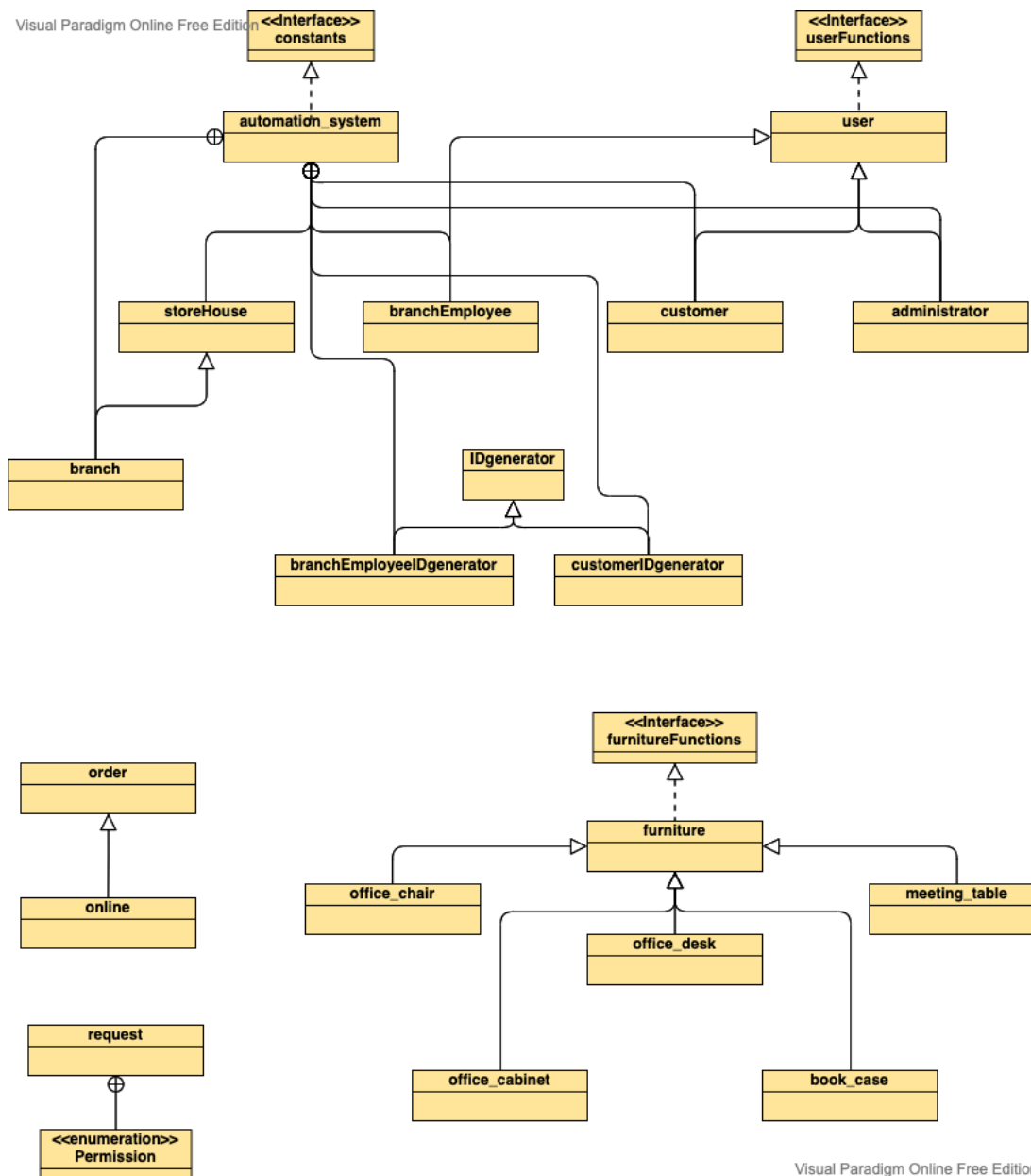
a. JDK

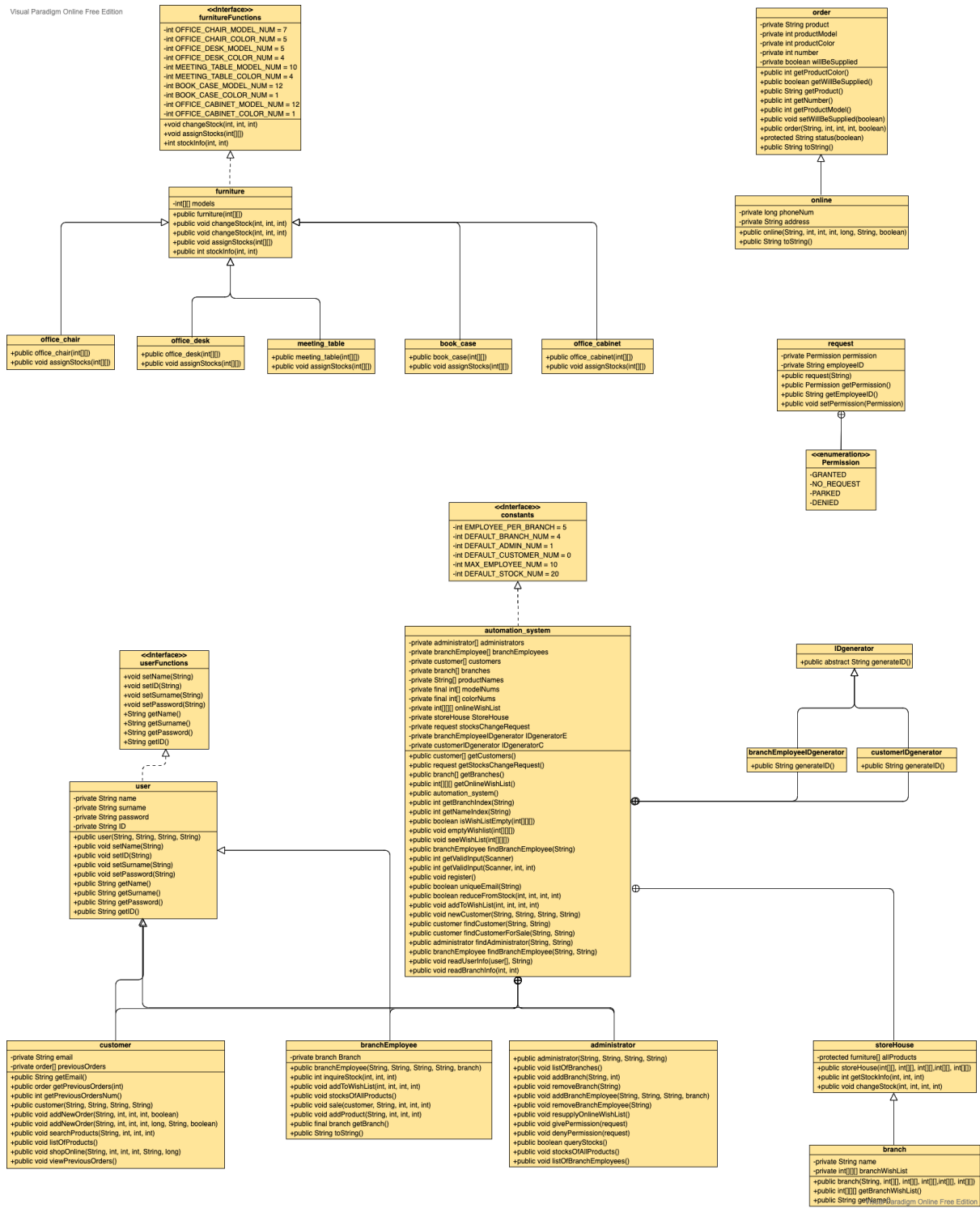
You need to download JDK 15 to run this homework.

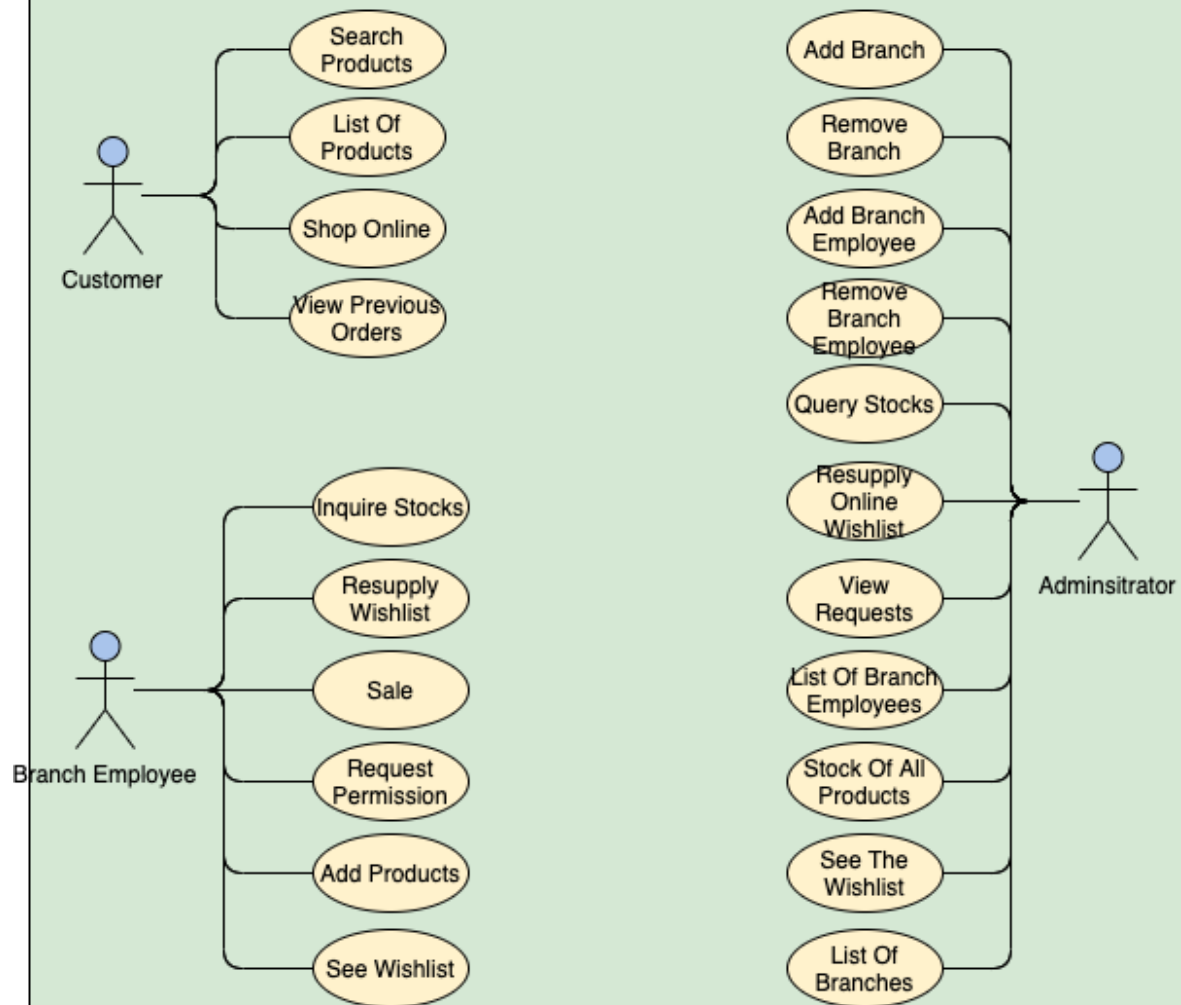
b. Files

You need default_branch1.txt, default_branch2.txt, default_branch3.txt, default_branch4.txt, default_branch_employees.txt, default_administrators.txt and default_store_house.txt files to initiate the automation system and a menu like driver.java to interact with the system.

2. USE CASE AND CLASS DIAGRAMS







3. PROBLEM SOLUTION APPROACH

To solve this assignment I created automation_system class and defined administrator, customer, branchEmployee, branch, storeHouse, branchEmployeeIDgenerator and customerIDgenerator classes inside this class.

4. TEST CASES && RUNNING AND RESULTS

```
Options
1)Signup
2>Login
1
NEW ACCOUNT
Enter your name:
Burak
Enter your surname:
Yildirim
Enter your email:
burak@gmail.com
Enter your password:
burak
Your ID is 67001
CUSTOMER MENU
1)Search Product
2)List Of Products
3)Shop Online
4)View Previous Orders
5)Return To Main Menu
|
```

```
LOGIN
Enter your ID(enter -1 to exit):
66001
Enter your password:
MM00001
BRANCH EMPLOYEE MENU
1)Inquire Stock
2)Resupply Wishlist
3)Sale
4)Request Permission
5)Add Products
6)See The Wishlist
7)Return To Main Menu
```

```
LOGIN
Enter your ID:
65001
Enter your password:
lol
ID or password does not match
```

I use a function to check the validity of input so this error catching is valid for all functions that takes user input

```
Options
1)Signup
2>Login
lol
Please enter an integer between 1 and 2
4
Please enter an integer between 1 and 2
-1
Please enter an integer between 1 and 2
```

If customer selects search product and then selects branch stocks

```
Enter the furniture name(use lowercase letters && enter -1 to exit):
office chair
Enter the model num:
1
Enter the color num:
1
branch1 has 7 of chosen product in its stocks
branch2 has 6 of chosen product in its stocks
branch3 has 18 of chosen product in its stocks
branch4 has 10 of chosen product in its stocks
```

If customer selects list of products

```
All of our products
1| office chair(7 models, 5 color per model)
2| office desk(5 models, 4 color per model)
3| meeting table(10 models, 4 color per model)
4| bookcase(12 models, 1 color per model)
5| office cabinet(12 models, 1 color per model)
```

If customer selects shop online

```
All of our products
1| office chair(7 models, 5 color per model)
2| office desk(5 models, 4 color per model)
3| meeting table(10 models, 4 color per model)
4| bookcase(12 models, 1 color per model)
5| office cabinet(12 models, 1 color per model)
Enter the furniture name(use lowercase letters && enter -1 to exit):
office desk
Enter the model num:
3
Enter the color num:
2
How many of the given product do you want:
10
Enter your address:
asd
Enter your phone number(only digits and no whitespaces):
1234
Shopping is done
```

If customer selects view previous orders

```
Previous Orders(new to old)
product = office desk, productModel = Model3, productColor = Color2, number = 10, phoneNum = 1234, address = asd, status = completed
```

If branch employee selects inquire stocks then selects see the stock info of a specified product

```
1)See All Of The Stocks
2)See The Stock Info Of A Specific Furniture
2
Enter the furniture name(use lowercase letters && enter -1 to exit):
office cabinet
Enter the model num:
12
Enter the color num:
1
Stock of chosen furniture in this branch is 3
```

If branch employee selects sale

```
1)New Costumer
2)Already Existing Costumer
2
Enter customer's email:
burak@gmail.com
Enter customer's ID:
67001
Enter the furniture name(use lowercase letters):
office desk
Enter the model num:
2
Enter the color num:
3
How many of the given product do you want:
3
sale is done
```

If branch employee selects resupply wishlist before getting administrator's permission

```
You have to get administrator's permission
```

To get the administrator's permission branch employee should select request permission

```
4)Request Permission
5)Add Products
6)See The Wishlist
7)Return To Main Menu
4
Request sent
```


After getting administrator's permission

```
2
Wishlist resupplied and supply-waiting branch orders of customers are delivered
```

If administrator selects add branch

```
Enter the name of the branch you want to add(enter -1 to exit):
branch5
Enter the number of employees that will work in this branch:
2
Enter the name of employee:
Serdil
Enter the surname of employee:
Unlu
Enter the password of employee:
1234
ID of the employee: 66021
Enter the name of employee:
Baran
Enter the surname of employee:
Solmaz
Enter the password of employee:
123456
ID of the employee: 66022
branch5 added as branch
```

After add branch

```
11)List Of Branches
12)Return To Main Menu
11
branch1
branch2
branch3
branch4
branch5
```

```
name = Charles, surname = Wilson, ID = 66020, branch = branch4
name = Serdil, surname = Unlu, ID = 66021, branch = branch5
name = Baran, surname = Solmaz, ID = 66022, branch = branch5
```

If administrator selects remove branch employee and enter 66001 as ID

Before

4

```
name = Mary, surname = Cooper, ID = 66001, branch = branch1
name = Patricia, surname = Evans, ID = 66002, branch = branch1
name = Jennifer, surname = King, ID = 66003, branch = branch1
```

After

8

```
name = Patricia, surname = Evans, ID = 66002, branch = branch1
name = Jennifer, surname = King, ID = 66003, branch = branch1
name = Linda, surname = Thomas, ID = 66004, branch = branch1
```

If administrator select remove branch

Before

11

```
branch1
branch2
branch3
branch4
```

```
name = Michael, surname = Williams, ID = 66014, branch = branch3
name = William, surname = Brown, ID = 66015, branch = branch3
name = David, surname = White, ID = 66016, branch = branch4
name = Richard, surname = Harris, ID = 66017, branch = branch4
name = Joseph, surname = Martin, ID = 66018, branch = branch4
name = Thomas, surname = Davies, ID = 66019, branch = branch4
name = Charles, surname = Wilson, ID = 66020, branch = branch4
```

After

2

Enter the name of the branch you want to remove(enter -1 to exit):

branch4

branch4 removed from branches

11

```
branch1
branch2
branch3
```

```
name = Robert, surname = Taylor, ID = 66013, branch = branch3
name = Michael, surname = Williams, ID = 66014, branch = branch3
name = William, surname = Brown, ID = 66015, branch = branch3
ADMINISTRATOR MENU
```

If administrator selects resupply online wishlist

8

Online wishlist resupplied and supply-waiting online orders of the customers are delivered

If administrator selects see wishlist(I do this with seeWishList function and I also use it for branch employee see wishlist option so that this is also valid for branch employee see wishlist option)

10

furniture = office chair model = Model1 color = Color1 need = 51