

GIT Department of Computer Engineering

CSE 222/505 - Spring 2021

Homework 3 Report

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1. SYSTEM REQUIREMENTS

Admins controls and manipulates the system by adding/removing branches and employees.

Customers can choose a branch and look for products, buy products online.

Customers can look his/her previous orders.

Employees can check the product situation and inform admin about need of supplies.

Employees can remove/add customers to the system.

Employees can update customers previous orders.

2. USE CASE AND CLASS DIAGRAMS

Created 2 new classes, Furniture , ColoredFurniture.

Furniture class is made for the furnitures that only has models.

ColoredFurniture class extends from Furniture, has color type too.

In my Furniture classes, I have a Hybridlist<Integer> that holds the amount of objects. In Furniture Hybridlist<Integer>, in ColoredFurniture Hybridlist< Hybridlist<Integer> >. Because making Furniture class as just holds model type and color type, in our Branch class it is hard to keep track of counts of a spesific furniture. For example when adding chair that has model A and color B to my Furnitures Hybridlist, everytime I had to check the object's type and color and hold another data structure for count of furnitures. It wouldn't be so optimal.

Test Cases

```
Welcome to our Furniture Shop!
```

1. Login
2. Register
3. Exit

```
Choice: 1
```

```
Please enter your ID:
```

```
12
```

```
Please enter your password:
```

```
sdfs
```

```
Invalid id/password. Please try again.
```

```
Welcome to our Furniture Shop!
```

1. Login
2. Register
3. Exit

```
Choice: 1
```

```
Please enter your ID:
```

```
A001
```

```
Please enter your password:
```

```
admin
```

```
You have successfully entered the shop.
```

```
Anil Ulasan
```

```
A001
```

1. Add new branch
2. Remove a branch
3. Supply products
4. Add Employee
5. Exit

```
Choice:
```

1. Add new branch
2. Remove a branch
3. Supply products
4. Add Employee
5. Exit

Choice:

1

Please enter where you want to open a new branch:

Kutahya

1. Add new branch
2. Remove a branch
3. Supply products
4. Add Employee
5. Exit

Choice:

2

1. Istanbul
2. Izmir
3. Kutahya

Please enter the branch you want to delete:

2

```
1. Add new branch
2. Remove a branch
3. Supply products
4. Add Employee
5. Exit
Choice:
3
1. Istanbul
2. Kutahya
Please choose a branch:
2
1. Chairs
2. Desks
3. Tables
4. Bookcases
5. Cabinets
6. Exit
Choice:
|
```

Welcome to our Furniture Shop!

```
1. Login
2. Register
3. Exit
Choice: 2
Please enter your name:
Mert
Please enter your surname:
Ulasan
Please enter your e-mail:
a@asd
Please enter your password:
Anil98
1. Search products
2. Buy products
3. Exit
Choice:
|
```

```
1. Search products
2. Buy products
3. Exit
Choice:
1
1. Istanbul
2. Izmir
Please choose a branch:
1
1. Chairs
2. Desks
3. Tables
4. Bookcases
5. Cabinets
6. Exit
Choice:
|
```

```
Choice:
2
1. Chairs
2. Desks
3. Tables
4. Bookcases
5. Cabinets
6. Exit
Choice:
1
1. Model 1
2. Model 2
3. Model 3
4. Model 4
5. Model 5
0. Back
```


1. Add new branch
2. Remove a branch
3. Supply products
4. Add Employee
5. Exit

Choice:

5

Please enter where you want to open a new branch:

Welcome to our Furniture Shop!

1. Login
2. Register
3. Exit

Choice: |

Please enter your ID:

asd

Please enter your password:

dfg

Invalid id/password. Please try again.