

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

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1-SYSTEM REQUIREMENTS

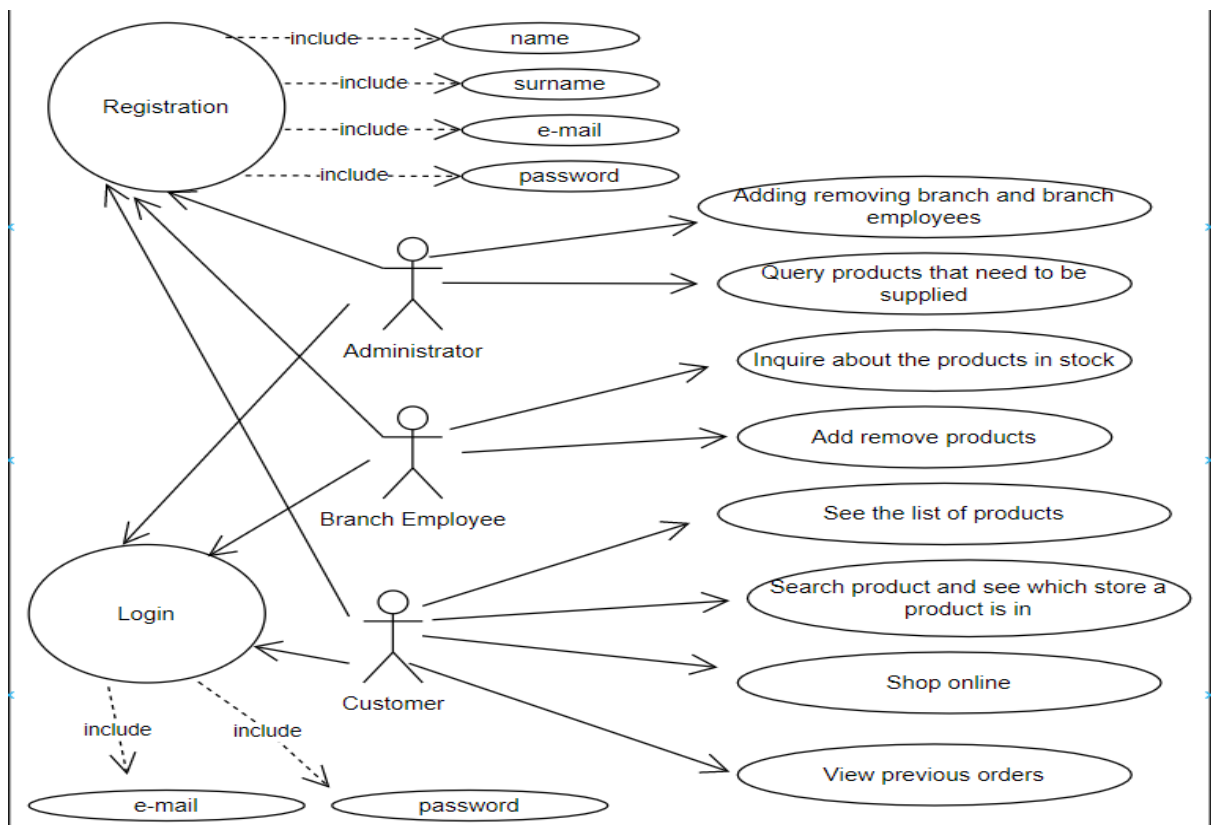
Functional Requirements

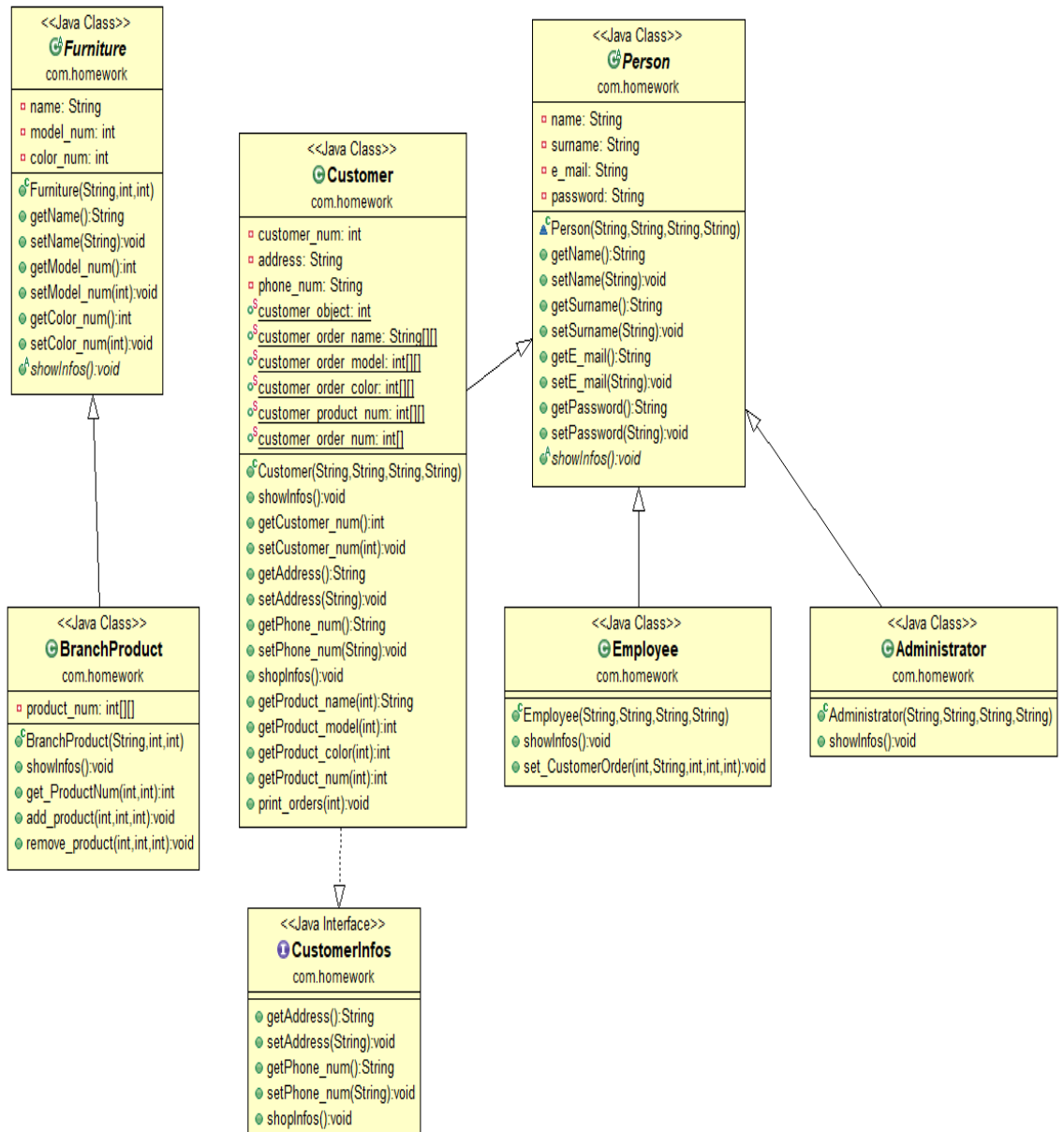
- 1-The system must send a error message to user when user logs in with wrong e-mail or password.
- 2-The system must prevent the customer from purchasing products when there is no branch employee on the system.
- 3-The system must send a warning message when user enters wrong product model number,color number etc...
- 4- The system must give an error message if the admin wants to remove a branch or branch employee while there is no branch or branch employee on the system.

Non-functional Requirements

- 1-Usability
- 2-Performance
- 3-Security
- 4-Reusability

2-USE CASE AND CLASS DIAGRAMS





3-PROBLEM SOLUTION APPROACH

1-Identify The Problem

Problem is making automation system. There will be administrators, branch employees and customers in the automation system.

2-Gather Information

Administrators manage the branch and branch and employees. Branch employee manage the products,update the customers' previous orders. Customers see list of products, see which store a product is in and shop online.

3-Iterate Potential Solutions

Administrators adding and removing branches and branch employees.

Branch employees adding and removing products.

Customers enter address and phone number information when he/she does shopping.

4-TEST CASES

1-Login Error

```
1-Registration
2-Login
3-Exit
Enter your choice:1

1-Administrator
2-Branch Employee
3-Customer
4-Back to main menu
Enter your choice:1

Enter your name:mehmet
Enter your surname:acar
Enter your e_mail:mehmet@hotmail.com
Enter your password:2598

1-Registration
2-Login
3-Exit
Enter your choice:2

Enter your e-mail:ahmet@hotmail.com
Enter your password:1802
Wrong e-mail or password
```

2- When all branches was removed

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2

The branch which was created last is removed.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2

The branch which was created last is removed.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2

The branch which was created last is removed.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2

The branch which was created last is removed.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2

There are not any branches. You can not remove branch.
```

3-When there are not any employees in the system

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:4

There are not any employees. You can not remove employee.
```

4-When branch employee enters wrong furniture selection number

```
1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:1

Which furniture do you want to inquire
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:6
Wrong choice
```

5-When branch employee enters wrong model number

```
Which model do you want to inquire?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
Enter your choice:15
Wrong choice
```

6-When branch employee enters wrong color number

```
Which color do you want to inquire?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
Enter your choice:7
Wrong choice
```

7-When all branches was removed

```
1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:1

Which furniture do you want to inquire
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:3

Which model do you want to inquire?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
Enter your choice:7

Which color do you want to inquire?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
Enter your choice:1

You can not inquire this product.Because there are not any branches.
```


8-When all branches was removed

```
1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:2

Which furniture do you want to select?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:1

Which model do you want to select?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
Enter your choice:5

Which color do you want to select?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
5- Color 5
Enter your choice:2

You can not add product to any branch.Because there are not any branches.
```

9-When all branches was removed

```
1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:3

Which furniture do you want to select?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:4

Which model do you want to select?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
11- Model 11
12- Model 12
Enter your choice:9

Which color do you want to select?
1- Color 1
Enter your choice:1

You can not remove product from any branch.Because there are not any branches.
```

10-If the number of products to be removed is more than the number of products in the selected branch

```
1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:3

Which furniture do you want to select?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:5

Which model do you want to select?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
11- Model 11
12- Model 12
Enter your choice:6

Which color do you want to select?
1- Color 1
Enter your choice:1

From which branch do you want to remove products?
1- Branch 1
2- Branch 2
3- Branch 3
4- Branch 4
Enter your choice:3

How many product do you want to remove:10
The amount of product you want to remove from this branch is incorrect.
```

11-When all branches was removed

```
1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:2

Which product do you want to see?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:3

Which model do you want to see?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
Enter your choice:8

Which color do you want to see?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
Enter your choice:2

This product is not in any branches. Because there are not any branches.
```

12-When there are not any branch employees in the system(This case contains 2 photos)

```
1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:2

Which product do you want to see?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:5

Which model do you want to see?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
11- Model 11
12- Model 12
Enter your choice:12

Which color do you want to see?
1- Color 1
Enter your choice:1

1. branch has 1 proper Office Cabinets which is Model 12 and Color 1
2. branch has 1 proper Office Cabinets which is Model 12 and Color 1
3. branch has 1 proper Office Cabinets which is Model 12 and Color 1
4. branch has 1 proper Office Cabinets which is Model 12 and Color 1

Do you want to buy this product?
1- Yes
2- No
Enter your choice:
1

From which branch would you like to buy this product?
1- Branch 1
2- Branch 2
3- Branch 3
4- Branch 4
Enter your choice:3
```

```
How many would you like to buy this product:1
Shopping failed because there are not any branch employees.
```

13-If the number of products to be purchased is more than the number of products in the selected branch(This case contains 2 photos)

```
1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:2

Which product do you want to see?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:2

Which model do you want to see?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
Enter your choice:1

Which color do you want to see?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
Enter your choice:4

1. branch has 1 proper Office Desks which is Model 1 and Color 4
2. branch has 1 proper Office Desks which is Model 1 and Color 4
3. branch has 1 proper Office Desks which is Model 1 and Color 4
4. branch has 1 proper Office Desks which is Model 1 and Color 4

Do you want to buy this product?
1- Yes
2- No
Enter your choice:
1
```

```
From which branch would you like to buy this product?
1- Branch 1
2- Branch 2
3- Branch 3
4- Branch 4
Enter your choice:2

How many would you like to buy this product:10
This store does not have the quantity you want of this product.
```

5-RUNNING AND RESULTS

```
1-Registration
2-Login
3-Exit
Enter your choice:1

1-Administrator
2-Branch Employee
3-Customer
4-Back to main menu
Enter your choice:1

Enter your name:mehmet
Enter your surname:acar
Enter your e_mail:mehmet@hotmail.com
Enter your password:2598

1-Registration
2-Login
3-Exit
Enter your choice:2

Enter your e-mail:mehmet@hotmail.com
Enter your password:2598

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:1

New branch is added.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:1

New branch is added.
```

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:2
```

The branch which was created last is removed.

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:3
```

```
Enter employee name:ahmet
Enter employee surname:polat
Enter employee e_mail:ahmet@hotmail.com
Enter employee password:1802
```

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:3
```

```
Enter employee name:mustafa
Enter employee surname:demir
Enter employee e_mail:mustafa@hotmail.com
Enter employee password:1607
```

```
1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:4
```

The employee which was created last is removed.

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:5

1-Add branch
2-Remove branch
3-Add branch employee
4-Remove branch employee
5-Any products that need to be supplied
6-Back to main menu
Enter your choice:6

1-Registration
2-Login
3-Exit
Enter your choice:2

Enter your e-mail:ahmet@hotmail.com
Enter your password:1802

1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:1

Which furniture do you want to inquire
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:2

Which model do you want to inquire?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
Enter your choice:4

Which color do you want to inquire?

- 1- Color 1
- 2- Color 2
- 3- Color 3
- 4- Color 4

Enter your choice:3

- 1. branch has 1 Office Desks which is Model 4 and Color 3
- 2. branch has 1 Office Desks which is Model 4 and Color 3
- 3. branch has 1 Office Desks which is Model 4 and Color 3
- 4. branch has 1 Office Desks which is Model 4 and Color 3
- 5. branch has 1 Office Desks which is Model 4 and Color 3

1-Inquire products in stock

2-Add products

3-Remove products

4-Back to main menu

Enter your choice:2

Which furniture do you want to select?

- 1-Office Chairs
- 2-Office Desks
- 3-Meeting Tables
- 4-Bookcases
- 5-Office Cabinets

Enter your choice:1

Which model do you want to select?

- 1- Model 1
- 2- Model 2
- 3- Model 3
- 4- Model 4
- 5- Model 5
- 6- Model 6
- 7- Model 7

Enter your choice:4

Which color do you want to select?

- 1- Color 1
- 2- Color 2
- 3- Color 3
- 4- Color 4
- 5- Color 5

Enter your choice:2

Which branch would you like to add products to?

- 1- Branch 1
- 2- Branch 2
- 3- Branch 3
- 4- Branch 4
- 5- Branch 5

Enter your choice:1

How many product do you want to add:10

Adding product to selected branch completed successfully.

1-Inquire products in stock

2-Add products

3-Remove products

4-Back to main menu

Enter your choice:3

Which furniture do you want to select?

1-Office Chairs

2-Office Desks

3-Meeting Tables

4-Bookcases

5-Office Cabinets

Enter your choice:4

Which model do you want to select?

1- Model 1

2- Model 2

3- Model 3

4- Model 4

5- Model 5

6- Model 6

7- Model 7

8- Model 8

9- Model 9

10- Model 10

11- Model 11

12- Model 12

Enter your choice:11

Which color do you want to select?

1- Color 1

Enter your choice:1

```
From which branch do you want to remove products?
1- Branch 1
2- Branch 2
3- Branch 3
4- Branch 4
5- Branch 5
Enter your choice:4

How many product do you want to remove:1
Removing product from selected branch completed successfully.

1-Inquire products in stock
2-Add products
3-Remove products
4-Back to main menu
Enter your choice:4

1-Registration
2-Login
3-Exit
Enter your choice:1

1-Administrator
2-Branch Employee
3-Customer
4-Back to main menu
Enter your choice:3

Enter your name:ali
Enter your surname:kaya
Enter your e_mail:ali@hotmail.com
Enter your password:1234
Your customer num:1

1-Registration
2-Login
3-Exit
Enter your choice:2

Enter your e-mail:ali@hotmail.com
Enter your password:1234
```

```
1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:1

1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets

1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:2

Which product do you want to see?
1-Office Chairs
2-Office Desks
3-Meeting Tables
4-Bookcases
5-Office Cabinets
Enter your choice:3

Which model do you want to see?
1- Model 1
2- Model 2
3- Model 3
4- Model 4
5- Model 5
6- Model 6
7- Model 7
8- Model 8
9- Model 9
10- Model 10
Enter your choice:9

Which color do you want to see?
1- Color 1
2- Color 2
3- Color 3
4- Color 4
Enter your choice:4

1. branch has 1 proper Meeting Tables which is Model 9 and Color 4
2. branch has 1 proper Meeting Tables which is Model 9 and Color 4
3. branch has 1 proper Meeting Tables which is Model 9 and Color 4
4. branch has 1 proper Meeting Tables which is Model 9 and Color 4
5. branch has 1 proper Meeting Tables which is Model 9 and Color 4
```

```
Do you want to buy this product?
1- Yes
2- No
Enter your choice:
1

From which branch would you like to buy this product?
1- Branch 1
2- Branch 2
3- Branch 3
4- Branch 4
5- Branch 5
Enter your choice:5

How many would you like to buy this product:1
Enter your address:gebze
Enter your phone number:5382458728
Shopping completed successfully.

1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:3

1- 1 Meeting Tables which is Model 9 and Color 4

1-See list of product
2-Search product,see which store a product is in and shopping
3-Look at your previous orders
4-Back to main menu
Enter your choice:4

1-Registration
2-Login
3-Exit
Enter your choice:3
cse312@ubuntu:~/Desktop/cse222_hw1$
```