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

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1. SYSTEM REQUIREMENTS

Functional Requirements:

ADMIN:

- 1) Admin can add a new branch
- 2) Admin can remove branch
- 3) Admin can add employee to branchs
- 4) Admin can remove employee to branchs

COSTUMER:

- 1) Costumer can view the products and features in the store
- 2) Costumer can search for the desired product in the store
- 3) Costumer can shop online
- 4) Costumer can login system
- 5) Costumer can Register

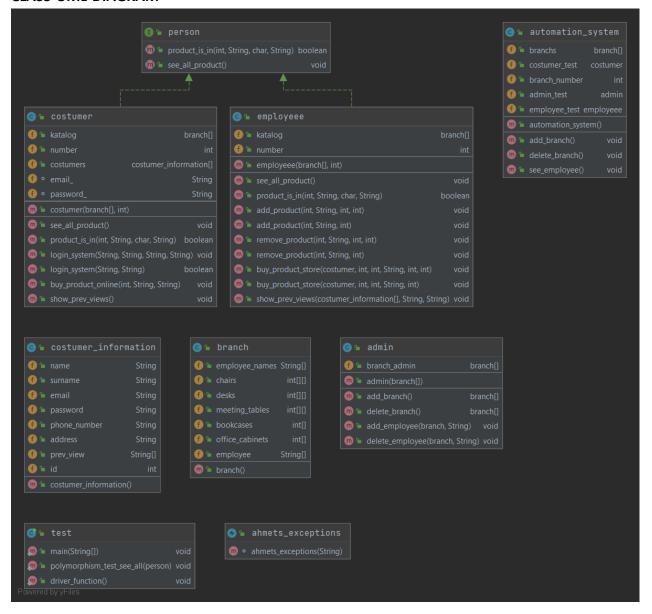
EMPLOYEE:

- 1) Employee can add a product
- 2) Employee can remove product
- 3) Employee can show products in stock
- 4) Employee can add members
- 5) Employee can view previous order information

Non-Functional Requirements:

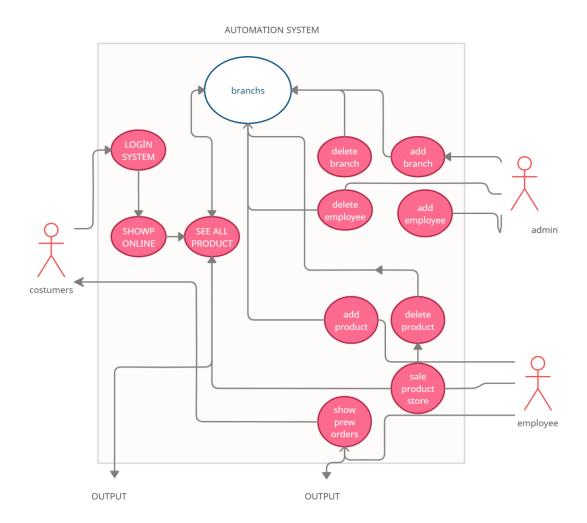
- 1) Computer must have jdk
- 2) The program should be maintainable
- 3) System requirements test should be done before the program is running

2. CLASS-UML-DIAGRAM



USE CASE DIAGRAM

AUTOTAMION SYSTEM



3. PROBLEM SOLUTION APPROACH

I choose java language for problem solving. I think the problem with this assignment is that the classes in the system can be aware of each other and keep themselves up-to-date. I created a class under the name of automation system admin, costumer, employee and branches . For the required arrays, I sometimes used classes as structures, for example costumer information consists of information in the class and these class and these classes are kept in an array . I inherited the employee and the costumer to the person; admin independent of these two . I have defined admin, employee, costumer and branches as inner class in the automation class. In this way, they could be aware of each other, the processes in these 3 classes can update each other and the changes in the branches can stay up-to-date. In this way, the system becomes interactive.

4. TEST CASES RUNNING AND RESULTS

ADMIN:

In this section the branch is deleted

```
BRANCH DELETED TEST FOUR BRACH!
BEFORE BRANCH NUMBER=4
BRANCH DELETED
BRANCH DELETED
BRANCH DELETED
BRANCH DELETED
BRANCH DELETED
ADMIN DELETE BRANCH. NEW BRANCH NUMBER=0
```

If there is no branch in the system

```
NEW BRANCH NUMBER=0
ADMIN DELETE BRANCH EXCEPTION TEST
ahmets exceptions: There is no branch!
```

In this section the branch is added

```
BRANCH ADDED TEST FOUR BRACH!
BRANCH ADDED
BRANCH ADDED
BRANCH ADDED
BRANCH ADDED
NEW BRANCH NUMBER=4
```

In this section, the worker is addedd to the desired branch.

```
***ADD EMPLOYEE AND DELETE EMPLOYE TEST***
BEFORE EMPLOYEE NAMES
***BRANCH1***
ahmet
***BRANCH2***
ahmet
***BRANCH3***
ahmet
***BRANCH4***
ahmet
ADMIN ADD EMPLOYEE 'BAHADIR' BRANCH 2
AFTER EMPLOYEE NAMES
***BRANCH1***
ahmet
***BRANCH2***
ahmet
bahadır
***BRANCH3***
ahmet
***BRANCH4***
ahmet
```

In this section, the worker is deleted to the desired branch.

```
ADMIN DELETE EMPLOYEE 'AHMET' BRANCH 2
AFTER EMPLOYEE NAMES
***BRANCH1***
ahmet
***BRANCH2***
bahadır
***BRANCH3***
ahmet
***BRANCH3***
```

COSTUMER:

In this section,he tries to log in to the system,but cannot login because he is not registered After that He is registred.

```
LOGIN SYSTEM FIRST LOGIN
PLEASE REGISTER
IN THIS SECTION IS TRYING TO LOGIN WITH MAIL AND PASSWORD BUT FAILS
THERE IS NO SUCH MEMBER
NAME=ahmet
SURNAME=okur
EMAIL=ahmetokur_41@hotmail.com
PASSWORD=asdasdasd
REGISTERED
```

In this part the costumer is shopping online

```
COSTUMER BUY PRODUCT !!121st product!!
ADRESS=gebze teknik üni. bilgisayar müh. PHONE_NUMBER=02121312!!
SEE ALL PRODUCT
```

Number of product before purchase

121) C model bookcases=2

Number of product after purchase

121) C model bookcases=1

Costumer's previous shopping information

```
test.costumer_test.buy_product_online(121, "gebze teknik üni. bilgisayar müh.", "02121312");//bookcase test.costumer_test.buy_product_online(55, "gebze teknik üni. bilgisayar müh.", "02121312");//chair

CUSTOMER VIEWS PREVIOUS ORDERS
```

bookcase chair

Costumer's product is in function

Employee:

Employee add and remove product funtion

ADD AND REMOVE PRODUCT LİNE 64 and 60 BEFORE

Before;

```
60) A model red color desks=2
61) A model yellow color desks=2
62) A model green color desks=2
63) B model blue color desks=2
64) B model red color desks=2
```

After;

```
60) A model red color desks=1
61) A model yellow color desks=2
62) A model green color desks=2
63) B model blue color desks=2
64) B model red color desks=3
```

Employee sell product store

```
SHOPPING FROM THE STORE LINE 13
```

Before;

```
12) A model office_cabinets=2
13) B model office_cabinets=2
14) C model office_cabinets=2
15) D model office_cabinets=2
16) E model office_cabinets=2
17) F model office_cabinets=2
18) G model office_cabinets=2
19) H model office_cabinets=2
20) I model office_cabinets=2
21) J model office_cabinets=2
22) K model office_cabinets=2
23) L model office_cabinets=2
```

After;

```
12) A model office_cabinets=2
13) B model office_cabinets=1
14) C model office_cabinets=2
15) D model office_cabinets=2
16) E model office_cabinets=2
17) F model office_cabinets=2
18) G model office_cabinets=2
19) H model office_cabinets=2
20) I model office_cabinets=2
21) J model office_cabinets=2
22) K model office_cabinets=2
23) L model office_cabinets=2
```

Employee looks at previous information of requested costumer

CUSTOMER VIEWS PREVIOUS ORDERS bookcase chair office_cabinets

Employee checks the product in stock

COSTUMER IS IN FUNCTION CONTROL A MODEL DESKS BLUE 1. BRANCH YES PRODUCT IS IN