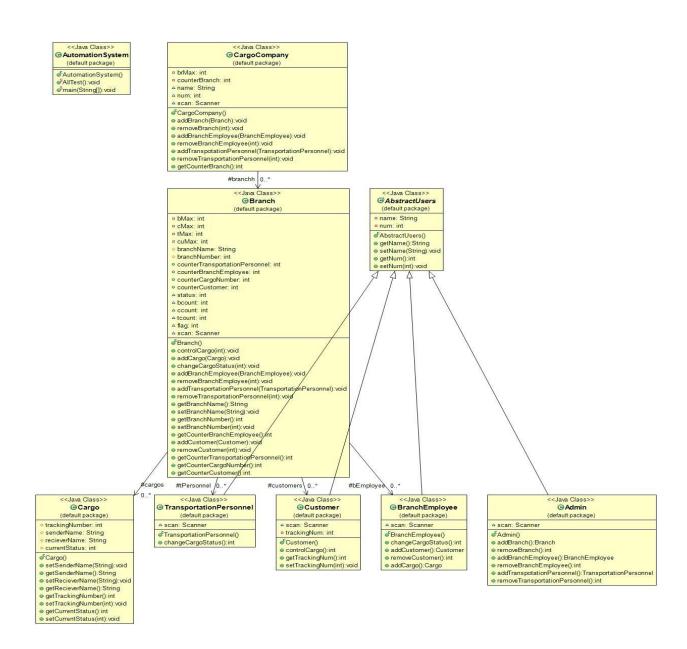
GTU CSE222

CARGO COMPANY SYSTEM

I will try to explain my homework in this report



CLASS DIAGRAM FOR CARGO COMPANY

You see the class diagram of the cargo company I created above. There is a cargo company with branches array in it. There are branches employees, transportation personnel and cargoes in each class.

Branch

Every branch has an array that keeps its employees and their information. Besides, there is an array that keeps the information of customers and information and cargoes.

ADMINISTRATOR

System administrator capable of add/remove branch,add/remove branch employee,add/remove transportation personnel functions.

BRANCH EMPLOYEE

User who can add or remove transportation personnel, add and remove customers, and change cargo status

TRANSPORTATION PERSONNEL

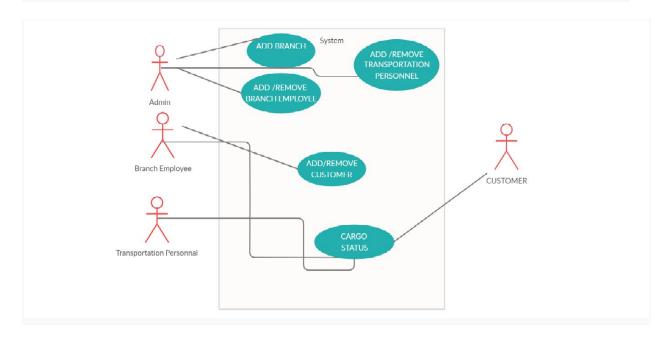
The user who can update the cargo status when he delivered the cargo.

BE and TP can log into the system with branch number and personal id.

CUSTOMER

User who can see the cargo status with the cargo tracking number.

USE-CASE DÍAGRAM FOR CARGO COMPANY



TEST CASES and RUNNING COMMAND, RESULTS

In this section, I tried test scenarios for admin, be, tp and customer and reflected the terminal image.

The code has the code written in the alltest method in AutomationSystem class.

The menu options for each user are below.

GENERAL MENU AND ADMINISTRATION MENU

```
Welcome the Cargo company automation system
Please choose your input method
1-)Admin
2-)Branch Employee
3-)Transportation Personal
4-)Customer
5-)Exit
1
Please select operation that you want
1-)Add Branches
2-)Remove Branches
3-)Add Branches Employee
4-)Remove Branches Employee
5-)Add Transportation Personnel
6-)Remove Transportation Personnel
7-)List Branches Employee
8-)List Transportation Personal
```

BRANCH EMPLOYEE MENU

```
Welcome the Cargo company automation system
Please choose your input method
1-)Admin
2-)Branch Employee
3-)Transportation Personal
4-)Customer
5-)Exit
2
82 --- GEBZE
Please enter the your branch number and your branch employe num
Branch Num-82
Branch personal num=14
Please select operation that you want
1-)Add Customer
2-)Remove Customer
3-)Change cargo status
4-)List cargos
```

If wrong information is entered, you are asked to enter it again.

TRANSPORTATION PERSONAL MENU

```
Please choose your input method
1-)Admin
2-)Branch Employee
3-)Transportation Personal
4-)Customer
5-)Exit
3
82 --- GEBZE
Please enter the your branch number and yourTransportation Personal num
Branch Num=82
Transportation personal num=55
Please select operation that you want
1-)Change cargo status
```

AND ALL TEST

```
Exist by the receive second or the may earge tembers.

Firstly we create CargeCompany object and admin to we create 3 branch for my company object and admin to we create 3 branch for my company object and admin to we create 3 cargeCompany object and admin to we create 4 cargeCompany object and admin to we create branchs and branch and branch and and admin to we create and branch must is and his branch is good and admin to we create and branch must is and his branch is good and admin to we create and branch must is and his branch is good and admin to we we listed all lanches Employee for texting Addiranchestmologuee Command hame. Almet Vilmar no. 1

Manch and the state of the state o
```

We added 3 branches in order above and then deleted one(ADD/REMOVE BRANCHES FOR ADMIN).

We added 4 branch employee to the branches and then deleted one.(ADD/REMOVE BRANCHES EMPLOYEE FOR ADMIN).

We added 4 transportation personnel to the branches and then deleted one.(ADD/REMOVE TRANSPORTATION PERSONNEL FOR ADMIN).

We added 3 customers to the branches and then deleted one.(ADD/REMOVE CUSTOMERS FOR BRANCH PERSONNEL).

Then we tried to update the shipping status for branch employee and transportation personnel.

Then we checked the cargo status as customer.

ALL RESULTS ARE IN TERMINAL SCREENSHOTS.

PROBLEM SOLUTIONS APPROACH

Fistly, I have created a admin automaticly. Using admin class

Then I created a branch using the admin addbranch method.

AddBranch--->Creates a branch type object and returns it to CargoCompany class. We add the object to the branch array using the add branches method of

CargoCompany.

I used element shift in array to delete branch.

I used similar methods in both branch employee and transportation personnel for both processes.

I used the addcustomer method to create a customer and created the cargo related to that customer in this method.

AddCustomer-->Requests customer related information and creates objects. Sending some information to the addcargo method.

AddCargo-->I create an object from the cargo method and send it to the branch. I'm adding to the array at the branch.

I'm using the previous logic for remove.

I use the tracking code to update the cargo status with cargostatus method.

CargoStatus-->The function that tells us by checking the status and getting the tracking code.

The customer can find out the status of the cargo just by entering the cargo tracking code.