

GIT Department of Computer Engineering
CSE 222/505 - Spring 2020
Homework 1 Report

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1. SYSTEM REQUIREMENTS

In order to execute my solution you need to have an essential JVM. You can run my Project in Eclipse or IntelliJ IDEA or whatever you want. It doesn't use any third party software libraries. If your computer can run a simple Java program, surely it will run my solution. Just in case JVM system requirements are noted here on Java's website:

Choose first who is enter the system.

1. Administrator

When admin is enter the system there was 6 menu to make.

a) Add branch

Add new branch to company and enter name of Branch. System automatically assign number for id.

b) Remove Branch

Remove specific Branch with id number. Admin enter id number and system search Branch with this id number. If it is not exist print not found. Else remove Branch.

c) Add Branch Employer

Add new branch employer to company and enter name of Branch employer. System automatically assign number for id.

d) Remove Branch Employer

Remove specific Branch employer with id number. Admin enter id number and system search Branch employer with this id number. If it is not exist, print not found. Else remove Branch employer.

e) Add Transporter Personel

Add new transporter employer to company and enter name of transporter employer. System automatically assign number for id.

f) Remove Transporter Personel

Remove specific transporter employer with id number. Admin enter id number and system search transporter employer with this id number. If it is not exist, print not found. Else remove transporter employer.

2. Branch Employer

Branch employees can just change info about package or delete deliver. When the package arrives at a branch or leaves the branch, its current status is entered into the system with tracking number by the branch employee.

Enter 2 for Arrive to branch\n" "enter 3 for Leave from branch\n" +

3. Transporter Employer

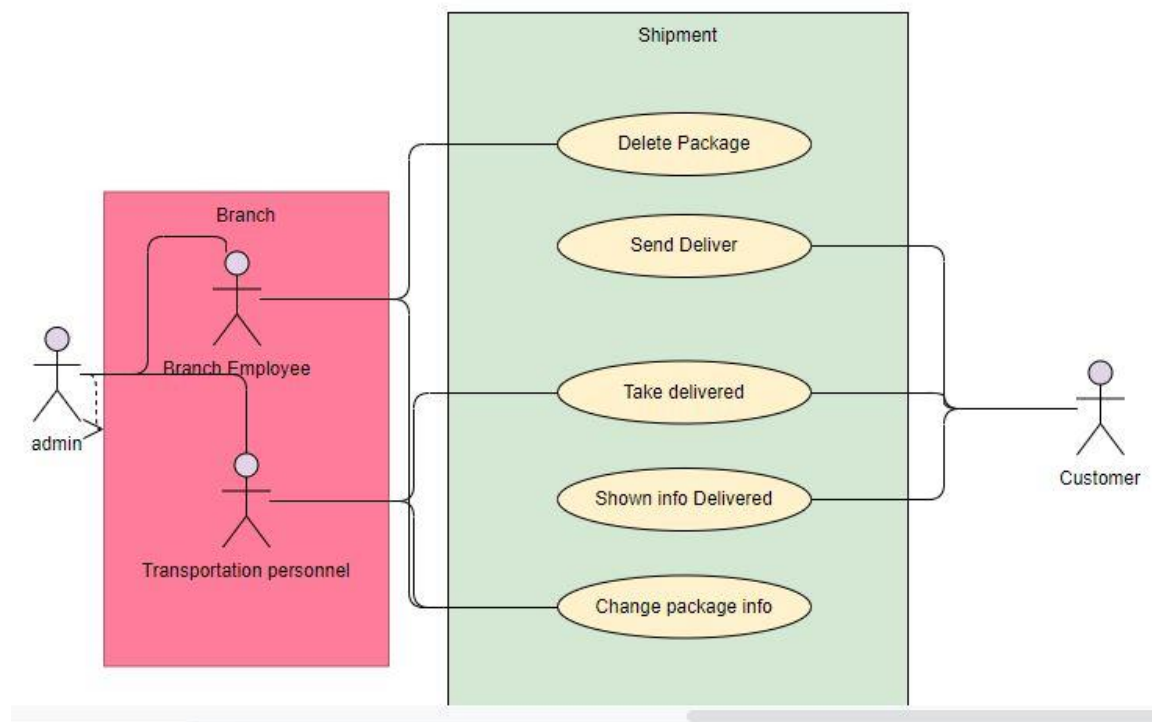
When it is delivered, the transportation personnel makes the update.

"4 - Delivered\n" "2 - Not Delivered\n" if not delivered Cargo will given back to branch.

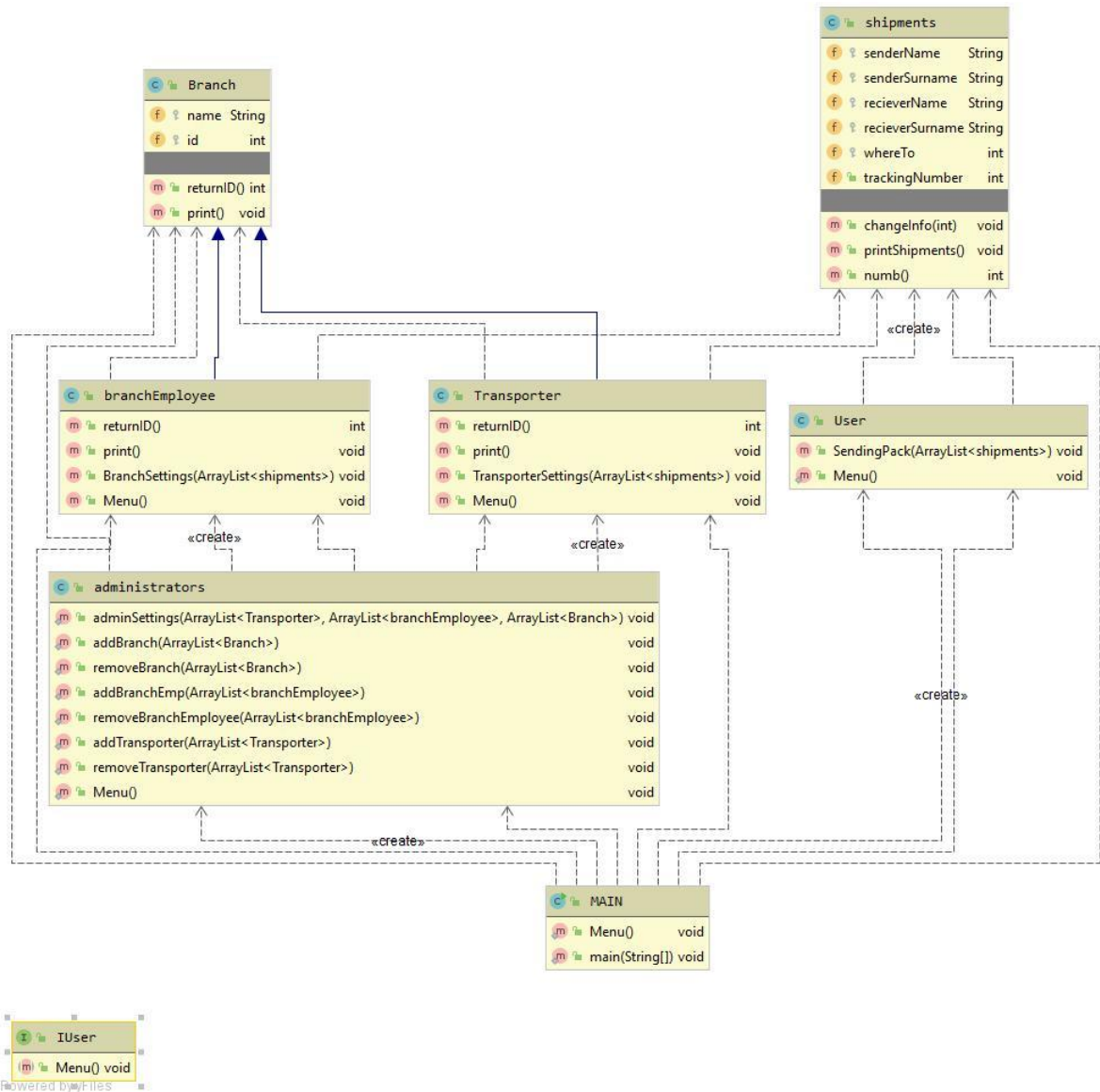
4. User

The customer entering the system with the tracking number is only authorized to see the name and surname information of the sender and receiver and the current status of the cargo.

2.USE CASE DIAGRAMS



3. CLASS DIAGRAMS



5. PROBLEM SOLUTION APPROACH

I divided the interface into 3 parts. I do the creation and deletion of branches in main, I add and delete branch employees in the admin object.

Data changes about the post in the branch object are made by those working in that branch.

The customer delivered in the shipment object. I take the data from the user and throw it into the newly opened pack array in main and increase its size.

7. RUNNING AND RESULTS

```
viper@ubuntu:~/Desktop/java/data structure/hw1$ javac CargoCompany.java  
viper@ubuntu:~/Desktop/java/data structure/hw1$ java CargoCompany
```

```
----- USER INTERFACE -----  
1 - Administrator  
2 - Branch Employee  
3 - Transportation Employee  
4 - Customer  
0 - Exit  
choose :
```

First shown whose using this interface. Chose one.

When admin login the system he/she can add and remove branch, branch employees. And there is some result.

```
----- USER INTERFACE -----  
1 - Administrator  
2 - Branch Employee  
3 - Transportation Employee  
4 - Customer  
0 - Exit  
choose : 1
```

```
----- ADMIN INTERFACE -----  
1 - Add Branch  
2 - Remove Branch  
3 - Add Transportation Employee  
4 - Remove Transportation Employee  
5 - Add Branch Employee  
6 - Remove Branch Employee  
0 - Back Menu  
choose : 1  
2
```

```
----- ADMIN INTERFACE -----  
1 - Add Branch  
2 - Remove Branch  
3 - Add Transportation Employee  
4 - Remove Transportation Employee  
5 - Add Branch Employee  
6 - Remove Branch Employee  
0 - Back Menu  
choose : 5  
choose branch : 1  
Name of the adding Branch Employee : alper
```

```
----- ADMIN INTERFACE -----
1 - Add Branch
2 - Remove Branch
3 - Add Transportation Employee
4 - Remove Transportation Employee
5 - Add Branch Employee
6 - Remove Branch Employee
0 - Back Menu
choose : 3
Name of the adding Branch Employee : ahmet
```

```
----- ADMIN INTERFACE -----
1 - Add Branch
2 - Remove Branch
3 - Add Transportation Employee
4 - Remove Transportation Employee
5 - Add Branch Employee
6 - Remove Branch Employee
0 - Back Menu
choose : 6
Name of the removing Branch Employee : alper
```

Customer sending a deliver and checking with tracking number where is package and info

```
----- USER INTERFACE -----
1 - Administrator
2 - Branch Employee
3 - Transportation Employee
4 - Customer
0 - Exit
choose : 4

----- CUSTOMER INTERFACE -
1 - Shipment Tracking
2 - Send Package
Choose : 2
Sender name : alper
Sender surname : yasar
Reviever name : ibo
Reciever surname : taskın
Your Trackin number : 1
```

about his/her package.

```
----- CUSTOMER INTERFACE -----  
1 - Shipment Tracking  
2 - Send Package  
Choose : 1  
Please enter tracking number : 1  
Info About 1  
Sender : alper yasar  
Reciever : ibo taskin  
Where : Taken pack from customer
```

```
----- USER INTERFACE -----  
1 - Administrator  
2 - Branch Employee  
3 - Transportation Employee  
4 - Customer  
0 - Exit  
choose : 2  
choose branch : 1
```

```
----- BRANCH INTERFACE -----  
1 - Info abaout package  
2 - Delete package  
0 - Exit  
choose : █
```