

GIT Department of Computer Engineering

CSE 222/505 - Spring 2020

Homework 1 – Report

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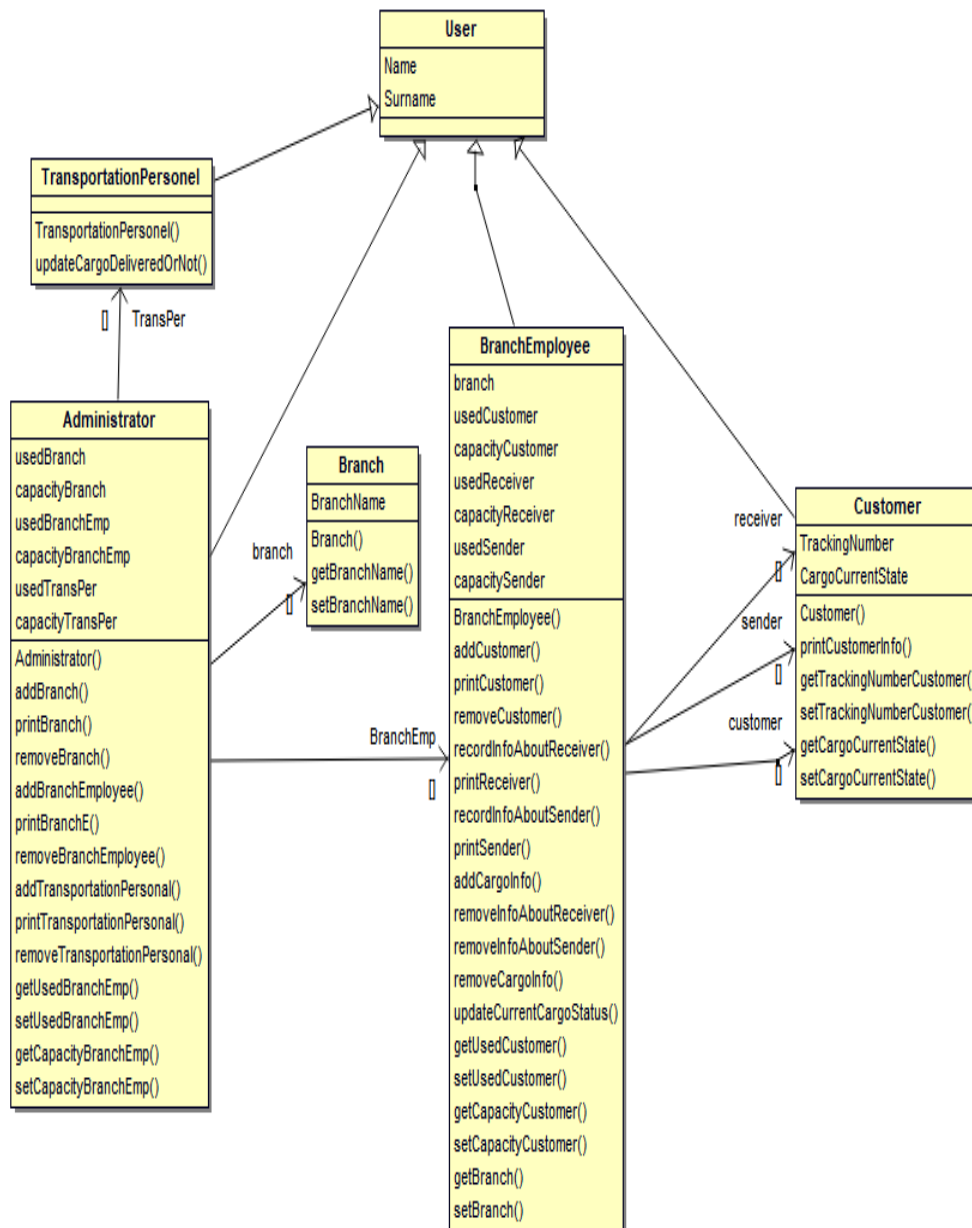
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1. SYSTEM REQUIREMENTS

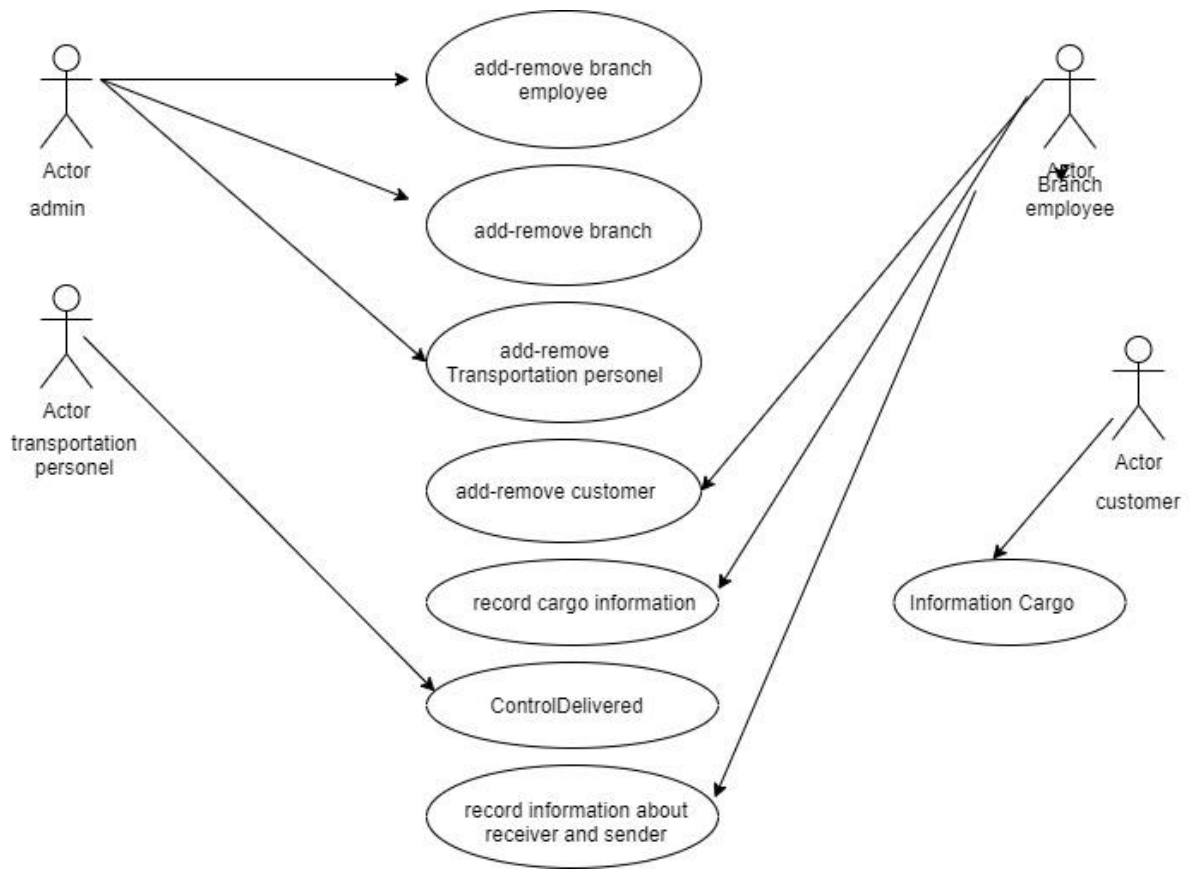
- Java version 12 or newer must be installed in the operating system.
- Any operating system that can run JDK version 13.0.2 such as Windows Vista or newer , Linux and MacOS.
- YY KB system memory is required to keep source files.
- 1.57 MB disk space is required for the Project Folder which includes javadoc and input file.

2. DIAGRAMS

UML DIAGRAM:



3. Use Case Diagram



4. PROBLEM SOLUTION APPROACH

Speed is very important in cargo companies. The slow processing of the process is a big problem for cargo companies. Automation systems should be developed to speed up this process.

Another problem is that customers do not know where their cargo is and when it will arrive. With online automation, this problem can be eliminated. Besides, the fact that managers can control their employees over the system will speed up the shipping process. By keeping the information of customers and employees online, it can be made quickly accessible from anywhere and the information is not lost.

As a result, I tried to achieve this automation by creating a cargo tracking system in this assignment.

5. TEST CASES

Case 1:

While adding a new Branch to branch array,I didn't let the program add the same branch.

Case 2:

While removing a Branch from branch array, Program warns the user if there is no that branch or deleted.

Case 3:

While adding a new Branch Employee to branch employee array,I didn't let the program add the same branch employee.

Case 4:

While removing a Branch employee from branch employee array,program warn the user if there is no that employee or deleted.

Case 5:

While adding a new Transportation Personel to Transportation Personel array,I didn't let the program add the same personel.

Case 6:

While removing a Transportation Personel to to Transportation Personel array,program warn the user if there is no that personel or deleted.

Case 7:

While removing a customer from customer array, Program warns the user if there is no that customer or deleted.

Case 8:

While adding a new customer to customer array,I didn't let the program add the same customer.

6. RUNNING AND RESULTS

```
Adding Branch employee to the company branch employee list...
Adding Ali - Veli - Aras Cargo to the company branch employee list...
Adding Ahmet - Mehmet - Surat Cargo to the company branch employee list...
Adding Hasan - Huseyin - MNG Cargo to the company branch employee list...
Adding Hasan - Huseyin - MNG Cargo to the company branch employee list...
Hasan Huseyin MNG Cargo has already exist.
1: Ali Veli Aras Cargo
2: Ahmet Mehmet Surat Cargo
3: Hasan Huseyin MNG Cargo
```

I filled the array of Branch Employee. I didn't let the program add the same person.

```
Removing Ahmet - Mehmet - Surat Cargo from the company branch employee list...

1: Ali Veli Aras Cargo
2: Hasan Huseyin MNG Cargo
-----

Removing Ahmet - Mehmet - Surat Cargo from the company branch employee list...

Ahmet Mehmet Surat Cargo not found.
1: Ali Veli Aras Cargo
2: Hasan Huseyin MNG Cargo
-----
```

When I want to delete any Branch employee, it warns me if there is no person who is called.

```
Adding Kucukyali Branch to the company branch list...
Adding Bostanci Branch to the company branch list...
Adding Maltepe Branch to the company branch list...
Adding Kadiköy Branch to the company branch list...

Branch list:
1: Kucukyali
2: Bostanci
3: Maltepe
4: Kadiköy
```

I added Branch

```
-----  
Removing Bostanci Branch from the company branch list...
```

```
Branch list:  
1: Kucukyali  
2: Maltepe  
3: Kadiköy  
-----
```

```
Removing Kadiköy Branch from the company branch list...
```

```
Branch list:  
1: Kucukyali  
2: Maltepe  
-----
```

```
Removing Kucukyali Branch from the company branch list...
```

```
Branch list:  
1: Maltepe  
-----
```

```
Removing Kucukyali Branch from the company branch list...
```

```
Kucukyali not found.  
Branch list:  
1: Maltepe  
-----
```

I delete Branch here. It gives a warning if I don't have the Branch that I searched for or the branch is already deleted.

```
Adding Transportation personal to the company ...  
Adding Elif Goral to the company Transportation personal list...  
Adding Neslihan Goral to the company Transportation personal list...  
Adding Levent Goral to the company Transportation personal list...  
Adding Neslihan Goral to the company Transportation personal list...  
Neslihan Goral has already exist.
```

```
1: Elif Goral  
2: Neslihan Goral  
3: Levent Goral
```

I add transportation personal here. It gives error if I try to add someone that I already added before.

```

1: Elif Goral
2: Neslihan Goral
3: Levent Goral

Removing Neslihan Goral from the company Transportation personal list...

1: Elif Goral
2: Levent Goral
-----

Removing Levent Goral from the company Transportation personal list...

1: Elif Goral
-----

Removing Levent Goral from the company Transportation personal list...

Levent Goral not found.
1: Elif Goral

```

I delete transportation personel here. If the person is not in the array, program warns the user.

```

Adding customer to the company from Elif Goral ...
Adding Ipek Aa - 123 to the company customer list...
Adding Ece Bb - 234 to the company customer list...
Adding Melike Cc - 345 to the company customer list...
Adding Ezgi Dd - 456 to the company customer list...
Adding Ece Bb - 234 to the company customer list...
Ece Bb 234 has already exist.

1: Ipek Aa 123
2: Ece Bb 234
3: Melike Cc 345
4: Ezgi Dd 456

```

I add customer here. It warns the user if the customer already added before.

```

1: Ipek  Aa  123
2: Ece   Bb  234
3: Melike Cc  345
4: Ezgi  Dd  456
Removing gg hh- 456 from the company customer list...

gg hh 456 not found.
1: Ipek  Aa  123
2: Ece   Bb  234
3: Melike Cc  345
4: Ezgi  Dd  456
-----

Removing Ece Bb- 234 from the company customer list...

1: Ipek  Aa  123
2: Melike Cc  345
3: Ezgi  Dd  456
-----

Removing Ece Bb- 234 from the company customer list...

1: Ipek  Aa  123
2: Melike Cc  345

```

I delete the customers here. If the user want to delete the customer that doesn't exist, programs warns the user.

```

adding receiver: aa bb - 123
adding receiver: cc dd - 786
Receiver:
1: aa  bb  123
2: cc  dd  786

removing receiver: cc dd - 786

Receiver:
1: aa  bb  123

Sender:
1: ee  ff  123
2: gg  hh  742

removing sender: ee ff - 123

Sender:
1: gg  hh  742
-----

```

I add and delete Receiver and Sender.

cargo information:

Receiver:

Name: Ali

Surname: Veli

Sender:

Name: Hasan

Surname: Huseyin

Tracking Number: 4621

cargo information:

Receiver:

Name: Ayse

Surname: Fatma

Sender:

Name: Nesli

Surname: AA

Tracking Number: 9952

cargo information:

Receiver:

Name: ela

Surname: goral

Sender:

Name: asdf

Surname: goral

Tracking Number: 7265

Cargo Information