

GIT Department of Computer Engineering

CSE 222/505 – Spring 2020

Homework #1 Report

Türker Tercan

171044032

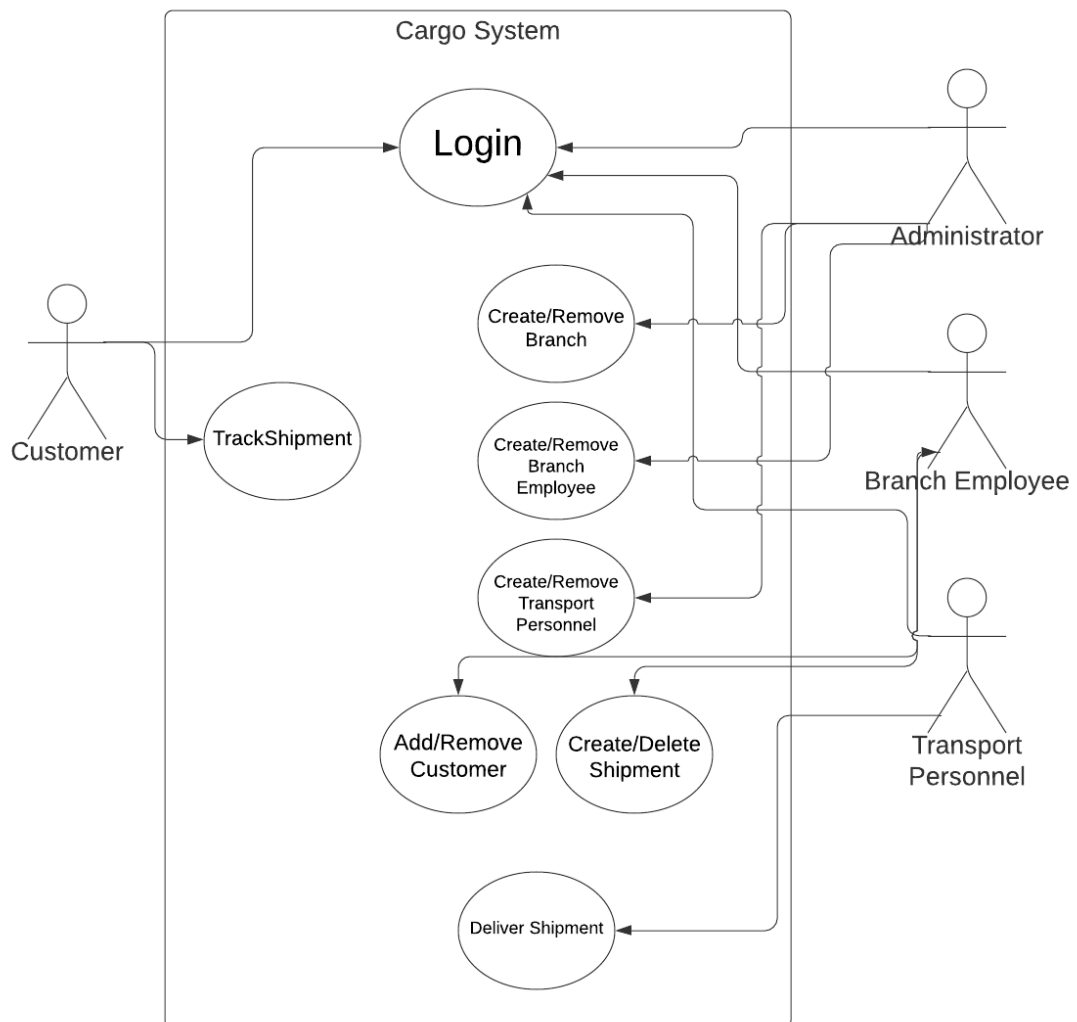
1. System Requirements

This system will be implemented for a cargo automation system. User (Customer) can login the system with his/her tracking number if there is a shipment with that number and shows it.

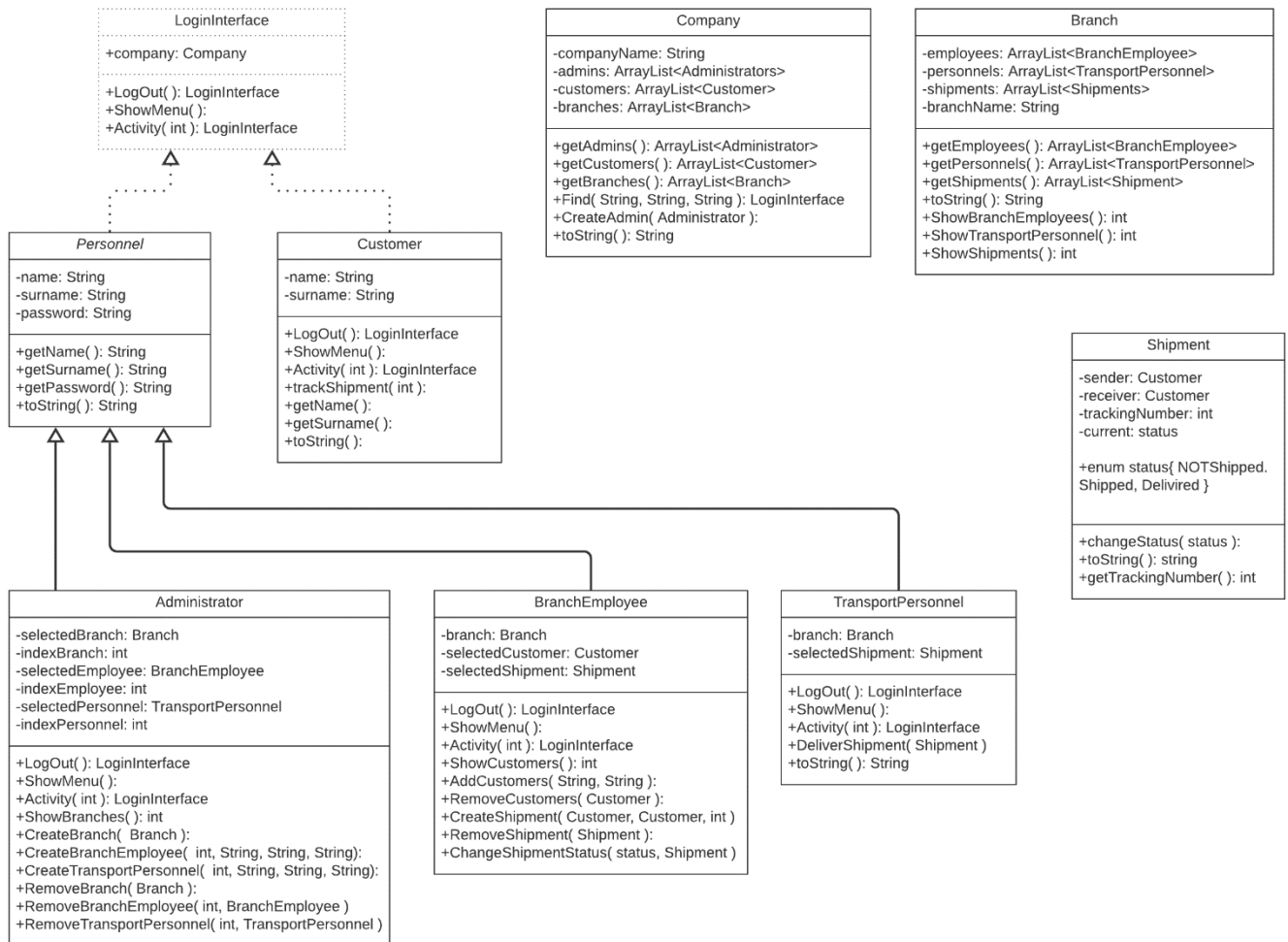
Administrators can create or delete branches and workers

Workers can add or erase shipments and customers

2. Use Case Diagrams



3. Class Diagram



4. Problem Solution Approach

- 1 – I need to provide a system
- 2 – This system will work with object-oriented programming
- 3 – Also it will need an interface
- 4 – Interface allows us to login to the system, shows a menu and make actions from menu
- 5 – I need to use an abstract class to work with polymorphism
- 6 – So I implemented personnel class
- 7 – Administrator, Branch Employee and Transport Personnel extends from this abstract class
- 8 – Customer class is different from them because they don't need a password to login to system

5. Running and Result

I tried all necessary methods in this part

```
~ Welcome to PTT Kargo ~
~ ~ ~ Login System ~ ~ ~
1 - Personnel      2 - Customer
Choice: 1
Name: turker
Surname: tercan
Password: asd
~ ~ ~ ADMIN MENU ~ ~ ~
1 - Create Branch
2 - Select a Branch
3 - Remove selected Branch
4 - Create Branch Employee within selected Branch
5 - Select a Branch Employee from selected Branch
6 - Remove selected Branch Employee
7 - Create Transport Personnel within selected Branch
8 - Select a Transport Personnel from selected Branch
9 - Remove selected Transport Personnel
10- Log Out
Choice: 1
Enter your branch name: cayirova
Branch successfully created
~ ~ ~ ADMIN MENU ~ ~ ~
1 - Create Branch
2 - Select a Branch
3 - Remove selected Branch
4 - Create Branch Employee within selected Branch
5 - Select a Branch Employee from selected Branch
6 - Remove selected Branch Employee
7 - Create Transport Personnel within selected Branch
8 - Select a Transport Personnel from selected Branch
9 - Remove selected Transport Personnel
10- Log Out
Choice: 2
1 - cayirova
Select a branch: 1
~ ~ ~ ADMIN MENU ~ ~ ~
1 - Create Branch
2 - Select a Branch
3 - Remove selected Branch
4 - Create Branch Employee within selected Branch
5 - Select a Branch Employee from selected Branch
6 - Remove selected Branch Employee
7 - Create Transport Personnel within selected Branch
8 - Select a Transport Personnel from selected Branch
9 - Remove selected Transport Personnel
10- Log Out
Choice: 4
Name: naime
Surname: oztunc
Password: 123
Branch Employee successfully created
~ ~ ~ ADMIN MENU ~ ~ ~
1 - Create Branch
2 - Select a Branch
3 - Remove selected Branch
```

- 4 - Create Branch Employee within selected Branch
- 5 - Select a Branch Employee from selected Branch
- 6 - Remove selected Branch Employee
- 7 - Create Transport Personnel within selected Branch
- 8 - Select a Transport Personnel from selected Branch
- 9 - Remove selected Transport Personnel
- 10- Log Out

Choice: 7

Name: ege

Surname: ozturk

Password: 321

Transport Personnel successfully created

~ ~ ~ ADMIN MENU ~ ~ ~

- 1 - Create Branch
- 2 - Select a Branch
- 3 - Remove selected Branch
- 4 - Create Branch Employee within selected Branch
- 5 - Select a Branch Employee from selected Branch
- 6 - Remove selected Branch Employee
- 7 - Create Transport Personnel within selected Branch
- 8 - Select a Transport Personnel from selected Branch
- 9 - Remove selected Transport Personnel
- 10- Log Out

Choice: 10

~ Welcome to PTT Kargo ~

~ ~ ~ Login System ~ ~ ~

- 1 - Personnel 2 - Customer

Choice: 1

Name: naime

Surname: oztunc

Password: 123

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

- 1 - Add customer
- 2 - Select a customer
- 3 - Remove selected customer
- 4 - Create shipment
- 5 - Select a shipment
- 6 - Remove selected shipment
- 7 - Change selected shipment's current status
- 8 - Log Out

Choice: 1

Name: cagla

Surname: sahin

Customer succesfully added

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

- 1 - Add customer
- 2 - Select a customer
- 3 - Remove selected customer
- 4 - Create shipment
- 5 - Select a shipment
- 6 - Remove selected shipment
- 7 - Change selected shipment's current status
- 8 - Log Out

Choice: 1

Name: ceylin

Surname: karatepe

Customer succesfully added

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

- 1 - Add customer

2 - Select a customer
3 - Remove selected customer
4 - Create shipment
5 - Select a shipment
6 - Remove selected shipment
7 - Change selected shipment's current status
8 - Log Out

Choice: 4

1 - cagla sahin
2 - ceylin karatepe

Select a sender: 1

1 - cagla sahin
2 - ceylin karatepe

Select a receiver: 2

Enter a tracking number: 35

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

1 - Add customer
2 - Select a customer
3 - Remove selected customer
4 - Create shipment
5 - Select a shipment
6 - Remove selected shipment
7 - Change selected shipment's current status
8 - Log Out

Choice: 5

1 - Shipment Information:

Sender: cagla sahin Receiver: ceylin karatepe

Tracking Number: 35 Status: NOTShipped

Select: 1

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

1 - Add customer
2 - Select a customer
3 - Remove selected customer
4 - Create shipment
5 - Select a shipment
6 - Remove selected shipment
7 - Change selected shipment's current status
8 - Log Out

Choice: 7

1 - Not Shipped

2 - Shipped

Choice: 2

~ ~ ~ BRANCH EMPLOYEE MENU ~ ~ ~

1 - Add customer
2 - Select a customer
3 - Remove selected customer
4 - Create shipment
5 - Select a shipment
6 - Remove selected shipment
7 - Change selected shipment's current status
8 - Log Out

Choice: 8

~ Welcome to PTT Kargo ~

~ ~ ~ Login System ~ ~ ~

1 - Personnel 2 - Customer

Choice: 2

Name: abdullah

Surname: gocer

~ ~ ~ CUSTOMER MENU ~ ~ ~

1 - Track a shipment

2 - Log Out

Choice: 1

Enter your tracking number: 35

Shipment Information:

Sender: cagla sahin Receiver: ceylin karatepe

Tracking Number: 35 Status: Shipped

~ ~ ~ CUSTOMER MENU ~ ~ ~

1 - Track a shipment

2 - Log Out

Choice: 2