

GTU Department of Computer Engineering

CSE 222/505 - Spring 2020

Homework 1 - Part2 Report

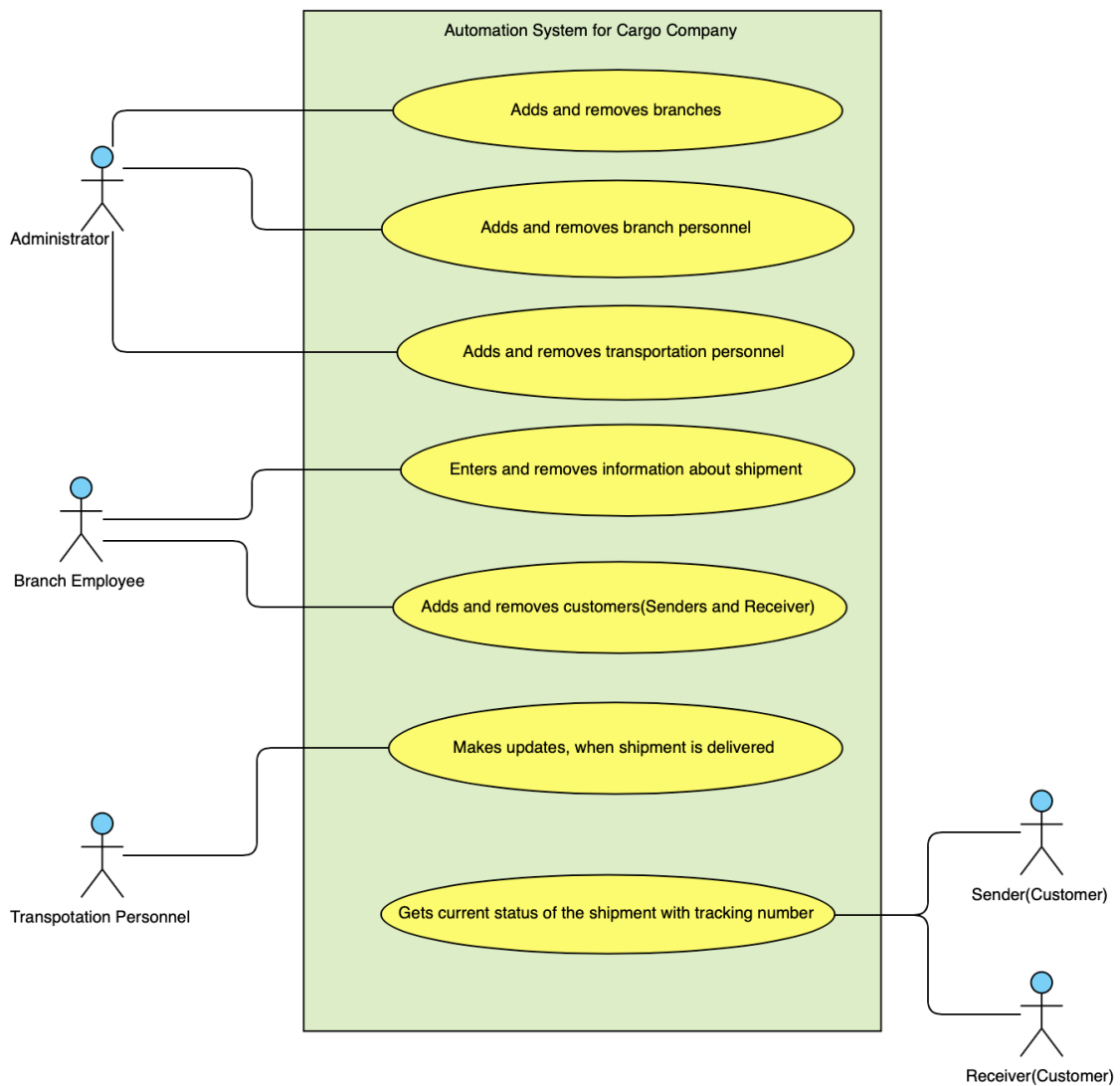
Dogu Cem Dogan

151044061

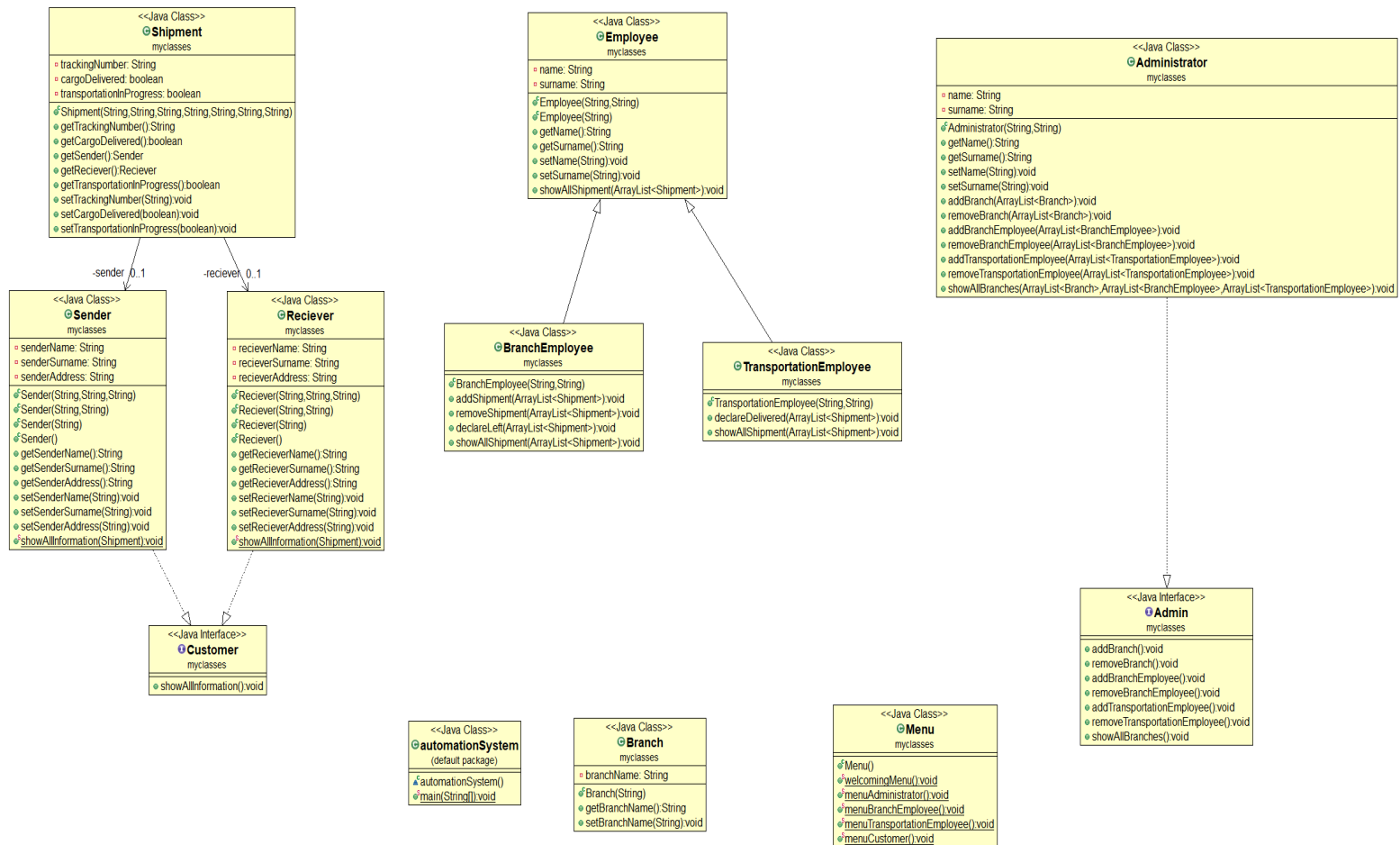
1. SYSTEM REQUIREMENTS

Java SE (Standard Edition) 7 or newer is required to run program.

2. USE CASE DIAGRAMS



3. CLASS DIAGRAMS



4. PROBLEM SOLUTION APPROACH

All object kept in ArrayList.

Automation class is the main class which manages all user interface's inputs and outputs.

All inheritance properties are shown on the UML diagram above.

All class properties are hidden from the user under abstraction philosophy which is the one of the most important part of object-oriented programming.

Customer and Admin interfaces is generated to achieve abstraction in java.

Error handling (try and catch) is used to avoid entering wrong type input.

Branch employee class and transportation class employee are inherited from Employee class therefore they used properties of super class.

Overloading and Overriding is applied in order to achieve polymorphism.

5. RUNNING AND RESULTS

```
LOGIN as:
1) Administrator
2) Branch Employee
3) Transportation Personnel
4) Customer(Sender or Receiver)
1
ADMINISTRATOR MENU
1) Add Branch
2) Remove Branch
3) Add Branch Personnel
4) Remove Branch Personnel
5) Add Transportation Personnel
6) Remove Transportation Personnel
7) Show All
8) Back to Previous Page
1
+
ENTER BRANCH NAME
kadıkoy
Branch Created!
ALL BRANCHS :
kadıkoy

ADMINISTRATOR MENU
1) Add Branch
2) Remove Branch
3) Add Branch Personnel
4) Remove Branch Personnel
5) Add Transportation Personnel
6) Remove Transportation Personnel
7) Show All
8) Back to Previous Page
2
ALL BRANCHES :
kadıkoy
besiktas
ENTER BRANCH NAME TO DELETE
kadıkoy
Branch Deleted!
ADMINISTRATOR MENU
1) Add Branch
2) Remove Branch
3) Add Branch Personnel
4) Remove Branch Personnel
5) Add Transportation Personnel
6) Remove Transportation Personnel
7) Show All
8) Back to Previous Page
1
ENTER BRANCH NAME
besiktas
Branch Created!
ALL BRANCHS :
kadıkoy
besiktas
-----
```

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

2

ALL BRANCHES :

kadıkoy

besiktas

ENTER BRANCH NAME TO DELETE

kadıkoy

Branch Deleted!

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

3

ALL BRRANCH EMPLOYEE :

ENTER BRANCH EMPLOYEE's NAME

cem

ENTER BRANCH EMPLOYEE's SURNAME

dogan

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

3

ALL BRRANCH EMPLOYEE :

cem dogan

ENTER BRANCH EMPLOYEE's NAME

oguz

ENTER BRANCH EMPLOYEE's SURNAME

senturk

Branch Employee Created!

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

5

ALL TRANSPORTATION EMPLOYEE :

ENTER TRANSPORTATION EMPLOYEE's NAME

merih

ENTER TRANSPORTATION EMPLOYEE's SURNAME

akcen

Transportation Employee Created!

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

5

ALL TRANSPORTATION EMPLOYEE :

merih akcen

ENTER TRANSPORTATION EMPLOYEE's NAME

enes

ENTER TRANSPORTATION EMPLOYEE's SURNAME

canyurt

Transportation Employee Created!

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

7

ALL BRANCHES :

besiktas

ALL BRRANCH EMPLOYEE :

cem dogan

oguz senturk

ALL TRANSPORTATION EMPLOYEE :

merih akcen

enes canyurt

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

4

ALL BRRANCH EMPLOYEE :

cem dogan

oguz senturk

ENTER BRANCH EMPLOYEE's NAME

oguz

ENTER BRANCH EMPLOYEE's SURNAME

senturk

Branch Employee Deleted!

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

7

ALL BRANCHES :

besiktas

ALL BRRANCH EMPLOYEE :

cem dogan

ALL TRANSPORTATION EMPLOYEE :

merih akcen

enes canyurt

ADMINISTRATOR MENU

- 1) Add Branch
- 2) Remove Branch
- 3) Add Branch Personnel
- 4) Remove Branch Personnel
- 5) Add Transportation Personnel
- 6) Remove Transportation Personnel
- 7) Show All
- 8) Back to Previous Page

8

WELCOME TO CARGO AUTOMATION SYSTEM

LOGIN as:

- 1) Administrator
- 2) Branch Employee
- 3) Transportation Personnel
- 4) Customer(Sender or Receiver)

2

ENTER BRANCH EMPLOYEE NAME

cem

ENTER BRANCH EMPLOYEE SURNAME

dogan

EMPLOYEE ACCESS COMFIRMED

BRANCH EMPLOYEE MENU

- 1) Show All Shipment
- 2) Add Shipment
- 3) Remove Shipment
- 4) Declare Shipment left the branch
- 5) Back to Previous Page

2

ENTER Tracking Number

101

ENTER Sender Name

beyza

ENTER Sender Surname

ay

ENTER Sender Address

gtu cayirova kocaeli

ENTER Reciever Name

burak

ENTER Reciever Surname

tekdamar

ENTER Reciever Address

karsiyaka izmir

Shipment Added

BRANCH EMPLOYEE MENU

- 1) Show All Shipment
- 2) Add Shipment
- 3) Remove Shipment
- 4) Declare Shipment left the branch
- 5) Back to Previous Page

4

ENTER Tracking Number TO Declare it is left from Branch

101

Shipment is left

BRANCH EMPLOYEE MENU

- 1) Show All Shipment
- 2) Add Shipment
- 3) Remove Shipment
- 4) Declare Shipment left the branch

WELCOME TO CARGO AUTOMATION SYSTEM

LOGIN as:

- 1) Administrator
- 2) Branch Employee
- 3) Transportation Personnel
- 4) Customer(Sender or Receiver)

4

CUSTOMER MENU

- 1) Cargo Tracking
- 2) Back to Previous Page

1

ENTER TRACKING NUMBER

101

ALL INFORMATIONS ABOUT SHIPMENT

Sender Name: beyza

Sender Surname: ay

Sender Address: gtu cayirova kocaeli

Reciever Name: burak

Reciever Surname: tekdamar

Sender Name: karsiyaka izmir

Transportation in progress: true

Cargo is delivered: false

CUSTOMER MENU

```
CUSTOMER MENU
1) Cargo Tracking
2) Back to Previous Page
2
WELCOME TO CARGO AUTOMATION SYSTEM
LOGIN as:
1) Administrator
2) Branch Employee
3) Transportation Personnel
4) Customer(Sender or Receiver)
3
ENTER TRANSPORTATION EMPLOYEE NAME
enes
ENTER TRANSPORTATION EMPLOYEE SURNAME
canyurt
EMPLOYEE ACCESS CONFIRMED
TRANSPORTATION EMPLOYEE MENU
1) Declare Shipment is delivered
2) Back to Previous Page
1
ENTER Tracking Number TO Declare it is left from Branch
101
Shipment is delivered
```

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WELCOME TO CARGO AUTOMATION SYSTEM
LOGIN as:
1) Administrator
2) Branch Employee
3) Transportation Personnel
4) Customer(Sender or Receiver)
4
CUSTOMER MENU
1) Cargo Tracking
2) Back to Previous Page
1
ENTER TRACKING NUMBER
101
ALL INFORMATIONS ABOUT SHIPMENT
Sender Name: beyza
Sender Surname: ay
Sender Address: gtu cayirova kocaeli
Reciever Name: burak
Reciever Surname: tekdamar
Sender Name: karsiyaka izmir
Transportation in progress: true
Cargo is delivered: true
CUSTOMER MENU
1) Cargo Tracking
2) Back to Previous Page
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