

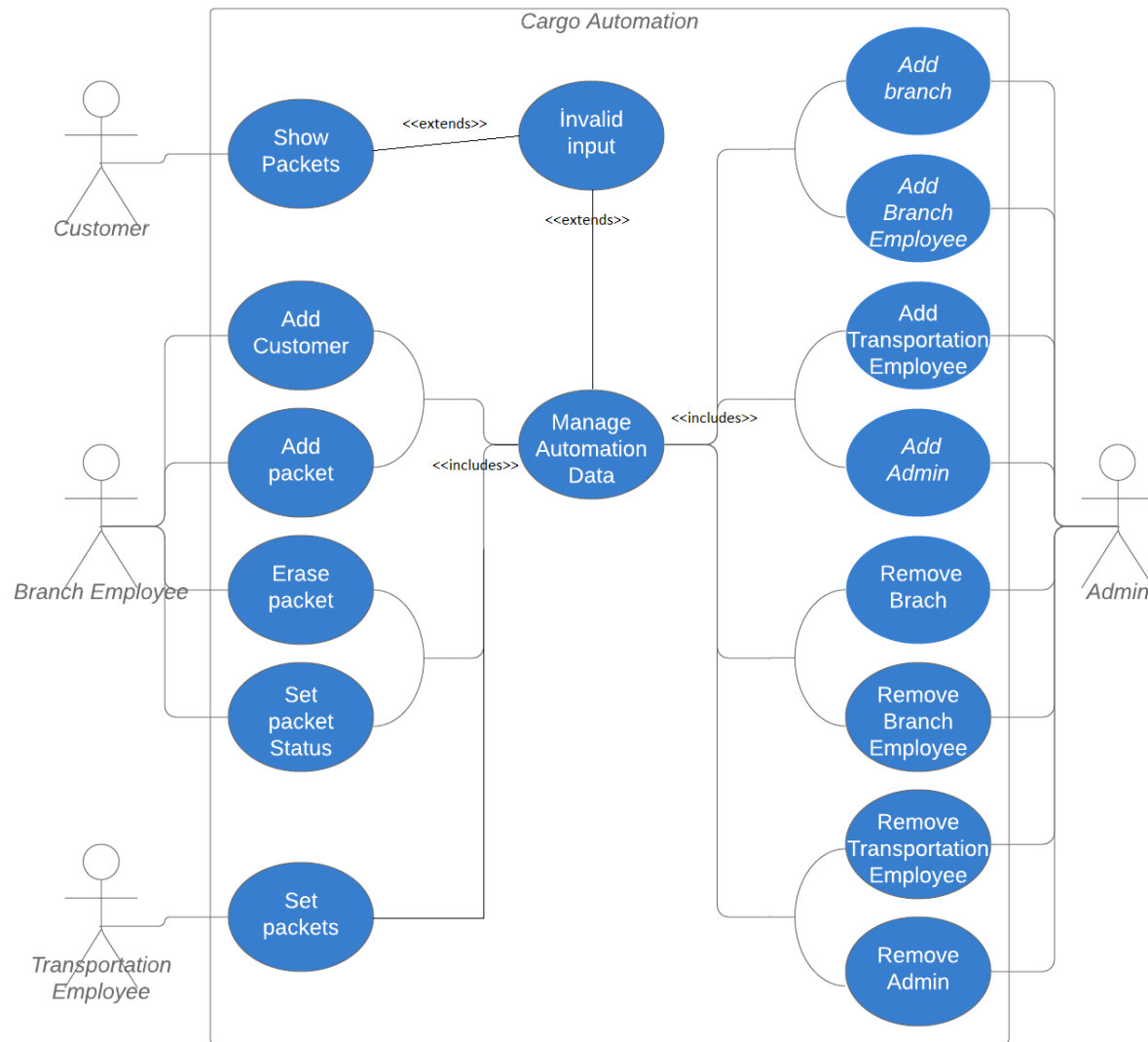
**GIT Department of Computer Engineering**  
**CSE 222/505 - Spring 2020**  
**Homework 1 Report**

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**171044066**

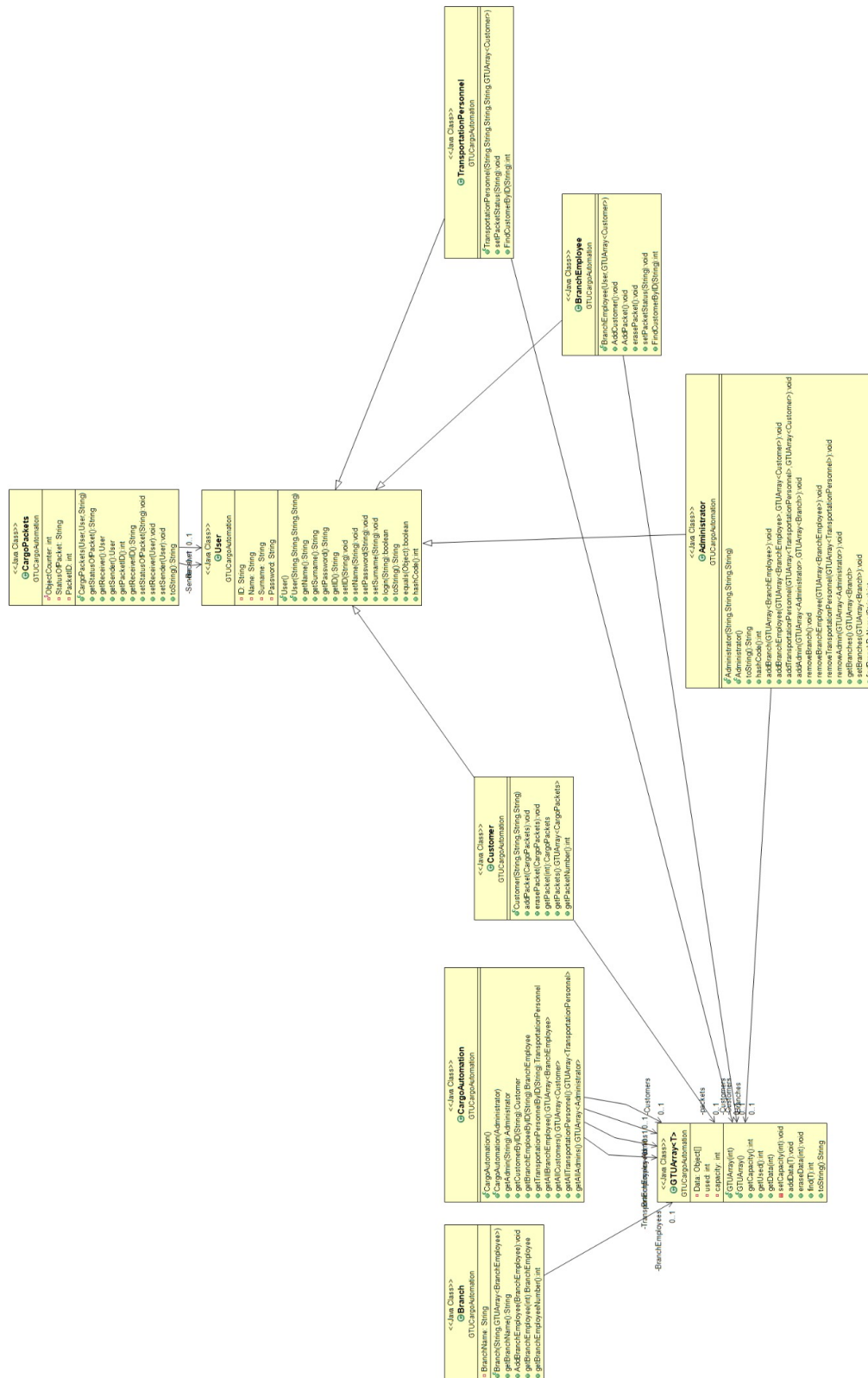
# **1.SYSTEM REQUIREMENTS**

When the program begins an Admin is created defaultly. When an admin login to system, the Admin can add another admin to this system. Admin can remove any other Admin from system. Default Admin can be removed by another Admin. Admin can add and remove a new branch. Admin can add and remove a new branch employee. Branch employee who has added to system by admin can add new Customer and remove any Customer. Branch employee can add and remove a new packet for a Customer who has added to system. Branch employee can set the status of the packet. Transportation employees can be added to system by admin. Transportation employees can set the status of the packets. Customers can also login to system by using their ID. When they login to system they can be see theri packet information if they have any packet which is added to system by branch employee. An admin can not add a new customer or new packet, An admin can not erase a customer or packet. A Branch employee can not add and remove a new admin, branch employee, transportation employee, and packet. A transportation employee can not add and remove branch employee, transportation employee, and packet.

## 2.USE CASE DIAGRAMS



### 3.CLASS DIAGRAMS



## 4.PROBLEM SOLUTION APPROACH

the problem was creating an automation system for a cargo company so I have to store some kind of data such as Admins, Customers, transportation employee, branch employee and packet informations. to be able to store these data I used an generic array class which is created by me (GTUArray). this array has an ordinary array. we can add and remove data by using methods. There was some kind of Users so I have created new classes for every different type User.They have their own methods and fields. I have used them in a main class and I cretad menus in main. By using this menus any user can use this automation.

## 5. TEST CASES

/\*

- 1-login as a default admin.
- 2-add a new admin.
- 3-delete the default admin.
- 3-try to acces to admin system with default admin ID.
- 4-An error occured.(invalid ID)
- 5-login as a admin with new Admin.
- 6-Create a new branch employee.
- 7-Add Transportation personnel.
- 8-Wrong ID enterd (try to login as branch employee).
- 9-Add customer1.
- 10-Add customer2.
- 11-Add packet to customer2.
- 12-set status of Customer1's packet to in transportation.
- 13-login as transportation personnel.
- 14-set status of Customer1's packet to Delivered.
- 15-Login as Customer1. (shows if there is any packet belongs to customer1)
- 16-Login as Customer2. (shows if there is any packet belongs to customer2)
- 17-Login as Branch employe and erase packet.
- 18-Login as Admin.
- 19-remove branch employee.
- 20-remove transportation employee.
- 21-remove branch.
- 22-try to login as removed branch employee.
- 23-try to login as removed transportation employee.
- 24-login as Admin.
- 25-remove the Admin.
- 26-try to login as admin again.

27-We cant reach the Admin panel any more because there is no admin in system.

\*/

Cargo Automation Login screen.

- 1) Login as a Admin.
  - 2) Login as a Branch Employee.
  - 3) Login as a Transportation Personnel.
  - 4) Login as a Customer.
  - 0) to quit from automation.
- choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : true

Enter Admin Password : true

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.
- 5) remove Branch.
- 6) remove Branch Employee.
- 7) remove Transportation Personnel.
- 8) remove Admin.
- 0) back.

choice : 4

Enter the name of the new Admin : Ali

Enter the surname of the new Admin : Bahar

Enter the ID of the new Admin : 171044066

Enter the password of the new Admin : 1

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.

5) remove Branch.  
6) remove Branch Employee.  
7) remove Transportation Personnel.  
8) remove Admin.  
0) back.  
choice : 8  
Admin ID : true

#### Admin Panel

1) Add Branch.  
2) Add BranchEmployee.  
3) Add Transportation Personnel.  
4) Add Admin.  
5) remove Branch.  
6) remove Branch Employee.  
7) remove Transportation Personnel.  
8) remove Admin.  
0) back.  
choice : 0

#### Cargo Automation Login screen.

1) Login as a Admin.  
2) Login as a Branch Employee.  
3) Login as a Transportation Personnel.  
4) Login as a Customer.  
0) to quit from automation.  
choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : true

Enter Admin Password : true

invalid ID

#### Cargo Automation Login screen.

- 1) Login as a Admin.
  - 2) Login as a Branch Employee.
  - 3) Login as a Transportation Personnel.
  - 4) Login as a Customer.
  - 0) to quit from automation.
- choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : 171044066

Enter Admin Password : 1

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.
- 5) remove Branch.
- 6) remove Branch Employee.
- 7) remove Transportation Personnel.
- 8) remove Admin.
- 0) back.

choice : 2

Enter the name of the new branch employee : Baran

Enter the surname of the new branch employee : Bozduman

Enter the ID of the new branch employee : 100000000

Enter the password of the new branch employee : 1

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.
- 5) remove Branch.
- 6) remove Branch Employee.
- 7) remove Transportation Personnel.
- 8) remove Admin.
- 0) back.



choice : 3

Enter the name of the new Transportation personnel : Nevzat

Enter the surname of the new Transportation personnel : Seferoglu

Enter the ID of the new Transportation personnel : 100000001

Enter the password of the new Transportation personnel : 1

Admin Panel

1) Add Branch.

2) Add BranchEmployee.

3) Add Transportation Personnel.

4) Add Admin.

5) remove Branch.

6) remove Branch Employee.

7) remove Transportation Personnel.

8) remove Admin.

0) back.

choice : 0

Cargo Automation Login screen.

1) Login as a Admin.

2) Login as a Branch Employee.

3) Login as a Transportation Personnel.

4) Login as a Customer.

0) to quit from automation.

choice : 2

Enter Your Branch Employee ID :

1000000000

Enter Your Branch Employee Password :

1

This ID Doesn't exist.

Cargo Automation Login screen.

1) Login as a Admin.

2) Login as a Branch Employee.

3) Login as a Transportation Personnel.

4) Login as a Customer.

0) to quit from automation.

choice : 2

Enter Your Branch Employee ID :

100000000

Enter Your Branch Employee Password :

1

1) Add Customer.

2) Add packet.

3) erase packet.

4) Set packet status.

0) Quit

1

Enter customer name : Kemal

Enter customer surname : Candan

Enter tracking number : 1234567890

1) Add Customer.

2) Add packet.

3) erase packet.

4) Set packet status.

0) Quit

1

Enter customer name : Yusuf

Enter customer surname : Sahin

Enter tracking number : 987654321

1) Add Customer.

2) Add packet.

3) erase packet.

4) Set packet status.

0) Quit

2

Enter the customer Tracking Number : 987654321

Enter sender name : SenderName1

Enter sender surname : SenderSurname1

Enter receiver name : ReceiverName1

Enter receiver surname : ReceiverSurname1

1) in branch

2) in Transportation

Enter the status of the packet : 1

1) Add Customer.

2) Add packet.

3) erase packet.

4) Set packet status.

0) Quit

4

- 1) in branch
- 2) in Transportation
- 0) quit

2

Enter the Customer ID : 987654321

Sender Name : SenderName1

Sender Surname : SenderSurname1

Receiver Name : Receiverame1

Receiver Surname : ReceiverSurname1

Packet ID : 0

Enter Packet ID : 0

- 1) Add Customer.
  - 2) Add packet.
  - 3) erase packet.
  - 4) Set packet status.
  - 0) Quit
- 0

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 3

Enter Your Transportation Personnel ID :

100000001

Enter Your Transportation Personnel Password :

1

- 1) Turn Status to Delivered.
- 0) quit

1

Enter the Customer ID : 987654321

Sender Name : SenderName1

Sender Surname : SenderSurname1

Receiver Name : Receiverame1

Receiver Surname : ReceiverSurname1

Packet ID : 0

Enter Packet ID : 0

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 4

Enter your Tracking Number : 1234567890

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 4

Enter your Tracking Number : 987654321

Sender Name : SenderName1

Sender Surname : SenderSurname1

Receiver Name : ReceiverName1

Receiver Surname : ReceiverSurname1

Packet ID : 0

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 2

Enter Your Branch Employee ID :

100000000

Enter Your Branch Employee Password :

1

- 1) Add Customer.
- 2) Add packet.
- 3) erase packet.
- 4) Set packet status.
- 0) Quit

3

Enter the Customer ID : 1234567890

Enter Packet ID : 0

- 1) Add Customer.
- 2) Add packet.
- 3) erase packet.
- 4) Set packet status.
- 0) Quit

0

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : 171044066

Enter Admin Password : 1

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.
- 5) remove Branch.
- 6) remove Branch Employee.
- 7) remove Transportation Personnel.
- 8) remove Admin.

0) back.

choice : 6

Branch Employee ID : 100000000

Admin Panel

1) Add Branch.

2) Add BranchEmployee.

3) Add Transportation Personnel.

4) Add Admin.

5) remove Branch.

6) remove Branch Employee.

7) remove Transportation Personnel.

8) remove Admin.

0) back.

choice : 7

Transportation personnel ID : 100000001

Admin Panel

1) Add Branch.

2) Add BranchEmployee.

3) Add Transportation Personnel.

4) Add Admin.

5) remove Branch.

6) remove Branch Employee.

7) remove Transportation Personnel.

8) remove Admin.

0) back.

choice : 0

Cargo Automation Login screen.

1) Login as a Admin.

2) Login as a Branch Employee.

3) Login as a Transportation Personnel.

4) Login as a Customer.

0) to quit from automation.

choice : 2

Enter Your Branch Employee ID :

100000000

Enter Your Branch Employee Password :

1

This ID Doesn't exist.

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 3

Enter Your Transportation Personnel ID :

100000001

Enter Your Transportation Personnel Password :

1

This ID Doesn't exist.

Cargo Automation Login screen.

- 1) Login as a Admin.
- 2) Login as a Branch Employee.
- 3) Login as a Transportation Personnel.
- 4) Login as a Customer.
- 0) to quit from automation.

choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : 171044066

Enter Admin Password : 1

Admin Panel

- 1) Add Branch.
- 2) Add BranchEmployee.
- 3) Add Transportation Personnel.
- 4) Add Admin.
- 5) remove Branch.
- 6) remove Branch Employee.

7) remove Transportation Personnel.  
8) remove Admin.  
0) back.  
choice : 8  
Admin ID : 171044066

#### Admin Panel

1) Add Branch.  
2) Add BranchEmployee.  
3) Add Transportation Personnel.  
4) Add Admin.  
5) remove Branch.  
6) remove Branch Employee.  
7) remove Transportation Personnel.  
8) remove Admin.  
0) back.  
choice : 0

#### Cargo Automation Login screen.

1) Login as a Admin.  
2) Login as a Branch Employee.  
3) Login as a Transportation Personnel.  
4) Login as a Customer.  
0) to quit from automation.  
choice : 1

Default ID : true

Default password : true

After Login you can add a new Admin

Enter Admin ID : 171044066

Enter Admin Password : 1

invalid ID

#### Cargo Automation Login screen.

1) Login as a Admin.  
2) Login as a Branch Employee.  
3) Login as a Transportation Personnel.  
4) Login as a Customer.



0) to quit from automation.  
choice : 0

Process finished with exit code 0