

GIT Department of Computer Engineering
CSE 222/505 - Spring 2020
Homework 01Report

Mohammad Ashraf Yawar
161044123

1. SYSTEM REQUIREMENTS:

a: functional requirements of the system:

- system starts with a message saying cargo name.
- system has automatically hired a CEO to the cargo company.
- name surname and user id of CEO of the system is ashraf yawar 2514.
- CEO has authority (or can) to start and close the system and hire Administrators to the system.
- from Login Page we can Login as CEO, Adminisrator, BranchEmployee TranspotaionPersonnel and Customer to the system.
- Administrator can hire/remove a BranchEmployee, Branch and Trasporation Personnel To /from Admin Page of the system.
- Branch Employee can add and remove customer to the system in two sectuation:
 - a >> only register the customer to the system thats all
 - b >> register the customer to the system and send package related to that customer from certain branch.
- branch employee can receive a shipmend the branch that he or she works at.
- branch employee can send an already received package, from a branch.
- branch employee can set and change the status of a package which is in the branch of on it's way to customer's address.
- when a package received from a customer it has three stages:

stage 1 : in branch status (Branch Employee can change the status of a package in this stage).

stage 2 : on the way status(Branch Employee can change the status of a package in this stage).

Stage 3: delivered stage (Transpotaion Personnel can delete delivered shipments from the Shipment list).

- Transportation Personnel has authority to delete the packages which is delivered to the certain address .
- customer can display his or her package info(information of sender information of receiver and information and status of the package) .
- a customer can only send one package in the same time after delivering his or her package he or she can send another one.
- if user enters a number not in the range of certain menu it must give an input error saying that the entered input is not in range or incorrect ,and return to menu until the valid input is entered In a certain menu(page).
- CEO of the system should close the system when it's necessary.

Non functional requirements of the system:

a) Portability:

since java programs are not platform independent this system's byte code will work in any platform as far as there is appropriate jdk is installed to the platform.

b)Security:

- security is concerned in this system since every class has it's own access scope .
- class User is abstract which's reference variable can refer to the objects of the class Administrator , Branch , BranchEmployee , TransportationPersonnel and Customer classes.
- Customer class can refer to one object of type Package class.
- classes of Administrator, BranchEmployee TransportationPersonnel and Customer each should hold a reference to object of type Branch class .
- name , surname , id , tracking number's should be accessed via class methods and should be private variables.

c) Maintainability:

- the system should be maintainable meaning we must be able to look up the code after a long time and understand it easily and could be able to expand the functionality of the system and make changes on old program.

- arrays used in this system must be flexible (dynamic). and any programmer who works on it should be able to make changes on it.

d) **Reliability:**

the system should be free of bugs and reliable to anyone.

- avoid null pointer access in the system.

e) **Performance:**

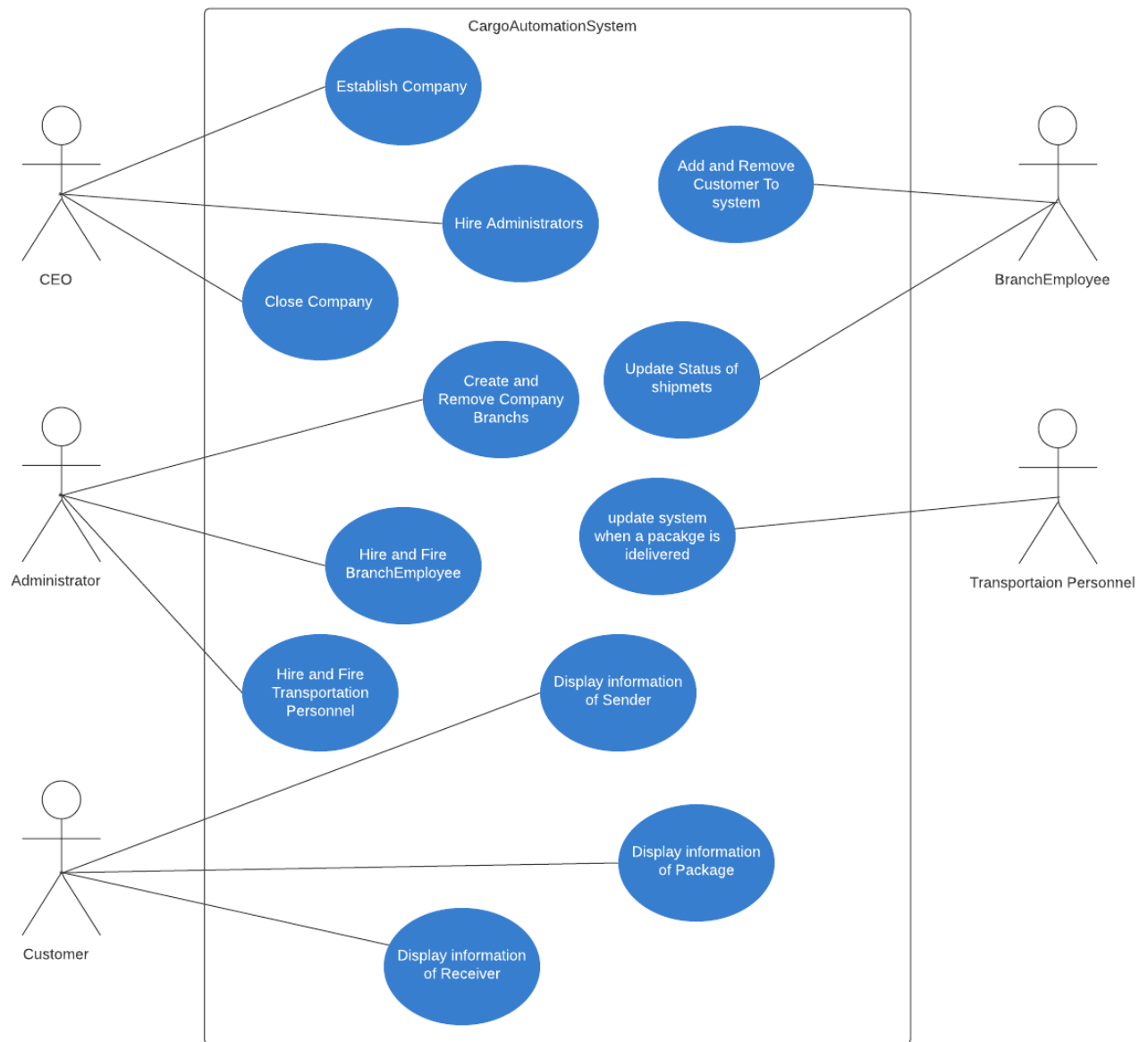
- system should respond in satisfactory manner so that users of the system be pleased with the performance of the system.

f) **Reusability:**

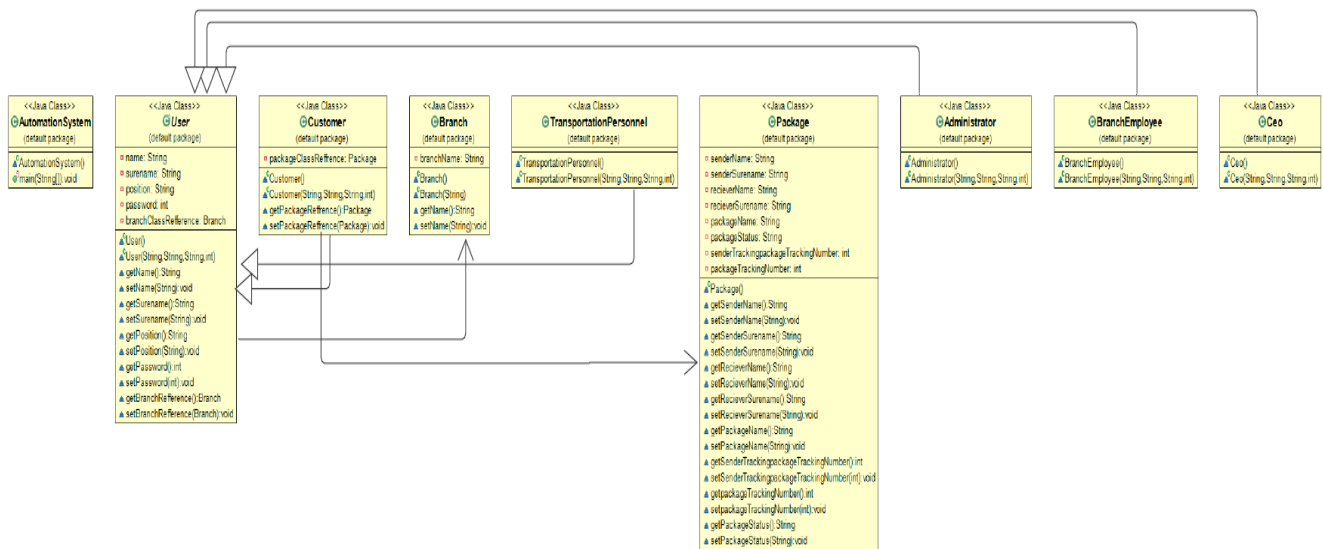
- create functions of the portions of the code which have same or different inputs but same or different outputs.

- make use of inheritance ,make an abstract class of parent class make variables and methods used differently in different child classes.

2. USE CASE DIAGRAMS:



3. CLASS DIAGRAMS:



4. OTHER DIAGRAMS:

5. PROBLEM SOLUTION APPROACH:

this system takes a user info and reacts according to that in order to store the user data I have used dynamic array concept to add and remove user or user's object in a dynamic array once system starts to process it asks user to login an according to which type of user (whether ceo ,administrator,branch employee transportation personnel or customer him or herself) system behaves to that and system kind of force user in some cases to a flow of program determined through out the coding relations between classes and objects by forcing user system prevents any kind of damage to the system and user privacy . Since we can manipulate the inheritance in this project we need to make use of abstract classes in inheritance since we have common data field and some common method used in some group of classes we can make use of inheritance .in this project case I have used a class named User and inheritend Ceo , Administrator, Branch Employee , Transportation Personnel and Customer Classes from it .in in this program once we start processing system foreces user to add atleast one admin to the company cause there must be at least one admin in a company and then we can add other user types to the system and each user has his her own range of accessibility to system in order to make changes in the system.

6. RUNNING AND RESULTS:

schreen shots:

schreen shots from biggenig of the program till the end with all tested scenarios.

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Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
ashrafyayar@ashraf:~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01$ javac AutomationSystem.java
ashrafyayar@ashraf:~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01$ java AutomationSystem

***** YAWAR BROTHERS CARGO COMPANY *****
* WE HAVE ESTABLISHED THIS COMPANY IN 2020 *
> COMPANY CEO IS MR : ashraf yawar
MR ashraf yawar PLEASE HIRE ATLEAST ONE ADMINISTRATOR TO YOUR CARGO COMPANY :
<< 1 For Hiring >>
<< 2 For Stopping >> 2
Atleast One Admin Please
<< 1 For Hiring >>
<< 2 For Stopping >> 1
admin's name: ashraf
admin's surname: yawar
admin's password: 11
<< 1 For Hiring >>
<< 2 For Stopping >> 1
admin's name: anisa
admin's surname: rahman1
admin's password: 22
<< 1 For Hiring >>
<< 2 For Stopping >> 2

*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:ashraf
SureName:yawar
Position:Administrtrorr
Password:11
Invalid input !!!
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
```

```
Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
***** Login Page *****
Name:ashraf
SureName:yawar
Position:Administrator
Password:11
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: aras kargo
aras kargo Has Been Established :)
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: ming kargo
ming kargo Has Been Established :)
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
```

```
Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: bin kargo
bin kargo Has Been Established :)
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: ali kargo
ali kargo Has Been Established :)
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: yuhaaa kargo
yuhaaa kargo Has Been Established :)
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
```

```
Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 1
Branch name: yes kargo
yes kargo Has Been Established :)
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 2
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:bin kargo 3:ali kargo 4:yuhaaa kargo 5:yes kargo
Enter The Index Of A Branch In Order To Delete It : 2
Branch Has Been Deleted Successfully :)
New Branch List :
0 aras kargo 1 ming kargo 2 ali kargo 3 yuhaaa kargo 4 yes kargo
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
```



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Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
Name:ahmet
Surname:mehmet
password:22
Active Branchs In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss ahmet To One Of The Branchs Avaialbe In The List >>
Enter Index Of A Branch : 1
Employee Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
Name:ali
Surname:wali
password:33
Active Branchs In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss ali To One Of The Branchs Avaialbe In The List >>
Enter Index Of A Branch : 1
Employee Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
```

```
Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
Name:jamel
Surname:kemal
password:44
Active Branchs In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss jamel To One Of The Branchs Avaialbe In The List >>
Enter Index Of A Branch : 3
Employee Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
Name:anisa
Surname:rahmani
password:77
Active Branchs In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss anisa To One Of The Branchs Avaialbe In The List >>
Enter Index Of A Branch : 1
```

```
Activities Terminal Mon Feb 24, 00:25 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:all kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss anisa To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
Employee Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 4
List Of Employees In This Company >>>
>> 0 ahmet mehmet BranchEmployee
>> 1 ali wali BranchEmployee
>> 2 jemal kemal BranchEmployee
>> 3 anisa rahmani BranchEmployee
Enter Index Of The Employee Who You Want Fire: 2
Employee Has Been Fired Successfully :(
New Employee List :
0: ahmet mehmet 1: ali wali 2: anisa rahmani
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:ayup
Surname:turkmen
password:11
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:all kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss ayup To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : f
ERROE Enter Commands Between 1 And 6 !!!!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:yusuf
Surname:turkmen
password:44
Active Branches In Our Company :
```

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Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:ayup
Surname:turkmen
password:11
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:all kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss ayup To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : f
ERROE Enter Commands Between 1 And 6 !!!!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:yusuf
Surname:turkmen
password:44
Active Branches In Our Company :
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss yusuf To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:omer
Surname:toprak
password:66
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss omer To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 6
List Of TransportationPersonnel In This Company >>>
>> 0 ayup turkmen TransportationPersonnel
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
*****
Enter Your Selection : 6
List Of TransportationPersonnel In This Company >>>
>> 0 ayup turkmen TransportationPersonnel
>> 1 yusuf turkmen TransportationPersonnel
>> 2 omer toprak TransportationPersonnel
Enter Index Of The Employee Who You Want Fire: 1
TransportationPersonnel Has Been Fired Successfully :(
New TransportationPersonnel List :
0: ayup turkmen 1: omer toprak
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:safiullah
Surname:rahmani
password:99
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss safiullah To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personel >>
```



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Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
<< 6 For Removing A Branch Transportation Personel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : yuhaa
ERROE Enter Commands Bitween 1 And 6 !!!!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 5
Enter Info Of The Transportation Personnel >>
Name:yes
Surename:no
password:00
Active Branchs In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss yes To One Of The Branchs Available In The List >>>
Enter Index Of A Branch : 1
TransportationPersonnel Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 7
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 7
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:anisa
SureName:rahmani
Position:BranchEmployee
Password:77
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 1
Customer's name : ahmet
Customer's surename : mehmet
Customer's Traching Number : 56
customer_list :
ahmet mehmet 56
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 1
Customer's name : kemal
Customer's surename : sunal
Customer's Traching Number : 1980
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help

Enter Your Selection : 1
Customer's name : kemal
Customer's surname : sunal
Customer's Traching Number : 1980
customer_list :
ahmet mehmet 56 kemal sunal 1980
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 1\
ERROE Enter Commands Btween 1 And 5 !!!!!
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 1
Customer's name : yes
Customer's surname : no
Customer's Traching Number : 01
customer_list :
ahmet mehmet 56 kemal sunal 1980 yes no 1
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help

<< 6 For LOGING OUT >>
*****Branch Employee Page*****
Enter Your Selection : 1
Customer's name : ashraf
Customer's surname : yawar
Customer's Traching Number : 55
customer_list :
ahmet mehmet 56 kemal sunal 1980 yes no 1 ashraf yawar 55
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 2
Active Customer List In Our Company :
0:ahmet mehmet 56
1:kemal sunal 1980
2:yes no 1
3:ashraf yawar 55

Enter The Index Of A Customer In Order To Delete : 2
Customer Has Been Deleted Successfully :)
New Customer List :
0 ahmet 1 kemal 2 ashraf
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 3
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 3
>> Press 1 For Already A Registered Customer >>
>> Press 2 For Register And Enter Package Info >>
1
Active Customer List In Our Company :
>> 0:ahmet mehmet 56
>> 1:kemal sunal 1980
>> 2:ashraf yawar 55
Enter Index Of Customer Who Has Been Registered Before: 1
Sender's Info Entered Now Enter Recivers's Info :
Reciever's Name: temur
Reciever's SureName: kerik
Package Name: telefon
Package Tracking Number: 87
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
Enter Your Selection : 3
>> Press 1 For Already A Registered Customer >>
>> Press 2 For Register And Enter Package Info >>
2
Customer's name : ali
Customer's surename : wali
Customer's Tracking Number : 77
Sender's Info Entered Now Enter Recivers's Info :
Reciever's Name: cem
Reciever's SureName: dede
Package Name: televizyon
Package Tracking Number: 77
Package Has Been Registered To The System Successfully :)
>> telefon inbranch >> televizyon inbranch
```

```
Activities Terminal Mon Feb 24, 00:26 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Customer's name : ali
Customer's surename : wali
Customer's Tracking Number : 77
Sender's Info Entered Now Enter Recivers's Info :
Reciever's Name: cem
Reciever's SureName: dede
Package Name: televizyon
Package Tracking Number: 77
Package Has Been Registered To The System Successfully :)
>> telefon inbranch >> televizyon inbranch
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
Enter Your Selection : 4
Enter Tracking Number Of Package To Send:77
Package Tracking Number 77 Is In It's Way To Deriviration Precess :)
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
Enter Your Selection : 5
Enter Tracking Number Of Delvered Package:77
Package Tracking Number 77 Has Been Delvered Successfully :)
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
```



```
Activities Terminal Mon Feb 24, 00:27 ashrafyawar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recteve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
Enter Your Selection : 7
ERROE Enter Commands Bitween 1 And 5 !!!!!
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recteve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
Enter Your Selection : 6
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:safiullah
SureName:rahmani
Position:TransportationPersonnel
Password:99
***** Transportation Personnel Page *****
<< 1 For Check For Deleverd Packages And Delete Them From Package List >>
<< 2 For LOGING OUT >>
Enter Your Selection: 1
Enter Tracking Number Of Delvered Package:77
Package Tracking Number 77 Has Been Deleted From Package List Successfully :)
*****
```

```
Activities Terminal Mon Feb 24, 00:27 ashrafyawar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (Bil 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
*****
Enter Your Selection: 2
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:ali
SureName:wali
Position:Customer
Password:77
***** Customer Page *****
<< 1 For Displaying Sender's Rectiever's And Package Info >>
<< 2 For LOGING OUT >>
Enter Your Selection : 2
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:ashraf
SureName:yawar
Position:Administrator
Password:11
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
```

```
Activities Terminal Mon Feb 24, 00:27 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 3
Enter Info Of The Branch Employee >>
Name:all
Surname:wali
password:55
Active Branches In Our Company :
0:aras kargo 1:ming kargo 2:ali kargo 3:yuhaaa kargo 4:yes kargo
Hire Mr/Miss all To One Of The Branches Available In The List >>>
Enter Index Of A Branch : 1
Employee Has Been Hired !!!
*****
***** Admin Page *****
<< 1 For Adding A Branch >>
<< 2 For Removing A Branch >>
<< 3 For Adding A Branch Employee >>
<< 4 For Removing A Branch Employee >>
<< 5 For Adding A Branch Transportation Personnel >>
<< 6 For Removing A Branch Transportation Personnel >>
<< 7 For LOGING OUT >>
*****
Enter Your Selection : 7
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:all
SureName:wali
Position:BranchEmployee
Password:55
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recteve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
```

```
Activities Terminal Mon Feb 24, 00:27 ashrafyayar@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BİL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 1
Customer's name : anisa
Customer's surename : rahmani
Customer's Traching Number : 44
customer_list :
ahmet mehmet 56 kemal sunal 1980 ashraf yawar 55 ali wali 77 anisa rahmani 44
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recteve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 3
>> Press 1 For Already A Registered Customer >>
>> Press 2 For Register And Enter Package Info >>
1
Active Customer List In Our Company :
>> 0:ahmet mehmet 56
>> 1:kemal sunal 1980
>> 2:ashraf yawar 55
>> 3:ali wali 77
>> 4:anisa rahmani 44
Enter Index Of Customer Who Has Been Registered Before: 4
Sender's Info Entered Now Enter Recivers's Info :
Reciever's Name: ashraf
Reciever's SureName: yawar
Package Name: love
Package Tracking Number: 44
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recteve Package To Branch >>
<< 4 For Send Package From Branch >>
```



```
Activities Terminal Mon Feb 24, 00:27 ashrafyaware@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
Enter Your Selection : 5
Enter Tracking Number Of Delivered Package:44
No Package Has This Tracking Number Or Package Is Not On The Way :(
*****Branch Employee Page*****
<< 1 For Adding A Customer >>
<< 2 For Removing A Customer >>
<< 3 For Recieve Package To Branch >>
<< 4 For Send Package From Branch >>
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 6
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:anisa
SureName:rahmani
Position:Customer
Password:44
***** Customer Page *****
<< 1 For Displaying Sender's Reciever's And Package Info >>
<< 2 For LOGING OUT >>
*****
Enter Your Selection : 1
Enter Tracking Number : 44
>> Sender Name: anisa
>> Sender SureName: rahmani
>> Package Name: love
>> Reciever Name: ashraf
>> Reciever SureName: yawar
>> Package Tracking Number: 44
Package Current Status: inbranch
***** Customer Page *****
```

```
Activities Terminal Mon Feb 24, 00:27 ashrafyaware@ashraf: ~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01
File Edit View Search Terminal Help
<< 5 For Change Status Of Arrived Packages >>
<< 6 For LOGING OUT >>
*****
Enter Your Selection : 6
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 1
***** Login Page *****
Name:anisa
SureName:rahmani
Position:Customer
Password:44
***** Customer Page *****
<< 1 For Displaying Sender's Reciever's And Package Info >>
<< 2 For LOGING OUT >>
*****
Enter Your Selection : 1
Enter Tracking Number :44
>> Sender Name: anisa
>> Sender SureName: rahmani
>> Package Name: love
>> Reciever Name: ashraf
>> Reciever SureName: yawar
>> Package Tracking Number: 44
Package Current Status: inbranch
***** Customer Page *****
<< 1 For Displaying Sender's Reciever's And Package Info >>
<< 2 For LOGING OUT >>
*****
Enter Your Selection : 2
*** PLEASE LOGIN TO SYSTEM IN ORDER TO MAKE CHANGES ***
1 For Login Page >>
2 For Exit Page >>
Selection : 2
ashrafyaware@ashraf:~/Desktop/6.SEMESTER/(1)Data Structures (BIL 222)/HOMEWORKS/HW01$
```