Gebze Technical University Computer Engineering

CSE 222 - 2020 Spring

HOMEWORK 1 REPORT

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SYSTEM REQUIREMENTS

Administrators manage (add and delete) branches, branch employees, and tranportation personnels. Branches store shipments. Branch employyes control to which shipment belong to transportation personnel. Transportation personnels deliver shipments to customer. Shipments have informations for sender, receiver. Branch employee update place of shipments in systems and update to deliver to receiver.

DIAGRAMS



```
BranchEmployees
- name String
- branchName: String
- branchName: String
- sundame String
- shipments: Shipments!
- BranchEmployees()
- BranchEmployees
```

+deleteBranches(source:Branches[] , branchName:String):
+addBrancheEmployees(source:BranchEmployees] , b:BranchEmployees):
+deleteBranchEmployees(source:BranchEmployees[] , BranchEmployeeName:String , BranchEmployeeSurname:String):
+toString():String

Branch

. chinmante : Shinmantel

Customer

- name : String -surname: String
- +Customer(name: String, Surname: String
- +Customer()

```
*addShipments(source: Shipments[] , shipments : Shipments )

*toString() : String

Customer

**name: String
**customer() **string **, Surname: String)

**Customer() **, Surname: String **, Surname: String)

**Customer() **, Surname: String **, Surname: String)

**customer() **, Surname: String **, Surname: String)

**pelSurname() String

**selSurname() String **, Systems: ItrackingNumbers : String)

**SeeingTheSituation(system: Systems; ItrackingNumbers : String)

**SeeingTheSituation(system: Systems; ItrackingNumbers : String)

**SelName(srame: String)

**toString() String

**Shipments

**sender: String

**receiver: String

**receiver: String

**receiver: String

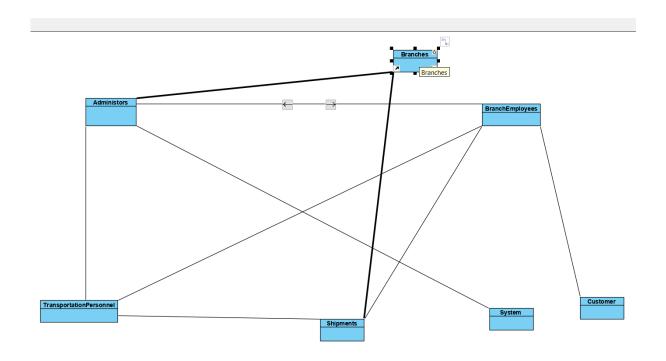
**selFaceEver() String

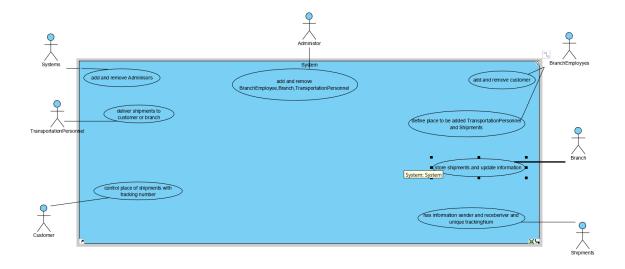
**selFaceEver() String

**selFaceEver() String

**pelSecander() String

**pel
```





Problem Solution Approach

Firstly write add and delete functions (Branch, branch Employees, Transportation Personnels) by Administors .

TransportationPersonel delivered shipments and branch employees manage shipments so administors add transportation personnel via branch employees.

Shipments apportion transportation personnels by branch employees.

Customer see situations shipments so shipments has tracking number. Tracking number is unique for shipments.

Customer can situations shipments in system, use tracking number.

Branch employees update place of shipments . holds package location information for this.branch employee set this location(where is variable)

Test Cases

- 1- Administors manage(add and delete) branch, branch Employees, transportation personnels.
- 2- Branch employee add and delete customers
- 3- Branch employees deal out shipments to transportational personels (add shipments metot)
- 4- Branch employees update place of shipments(ShippingStatus metot)
- 5- Transportational personnel deliver shipment customer(DeliveredShipment metot)
- 6- Customer see place shipments(SeeingTheSituation metot)(via trackingNumber)

Running and Test

```
for(i = 0; i < a.getBranchEmployeesSize(); ++i) {
    System.out.println(a.getBranchEmployees()[i]);
}

System.out.println("delete TO BRANCHEmployees mesut oguz");
    a.deleteBranchEmployees(a.getBranchEmployees(), BranchEmployeeName: "Mesut", BranchEmployeeSumame: "OGUZ");

for(i = 0; i < a.getBranchEmployees(); ++i) {
    System.out.println(a.getBranchEmployees()[i]);
}

PrintStream var10000 = System.out;
BranchEmployees[] var10001 = a.getBranchEmployees()[i]);
}

PrintStream var10000 = System.out;
BranchEmployees[] var10001 = a.getBranchEmployees()[i], new TransportationPersonnel(name: "batuhan", Sumame: "karadag", a.getBranchEmployees()[i], a.addTransportationPersonnel(a.getBranchEmployees()[i], new TransportationPersonnel(name: "liker selim", Sumame: "ay", a.getBranchEmployees()[i], new TransportationPersonnel(name: "metin", Sumame: "ay", a.getBranchEmployees()[i], getTransportationPersonnel(name: "metin", Sumame: "demirci", a.getBranchEmployees()[i].getTransportationPersonnel()[i]);
}

System.out.println("DELETE to transportation employee ILEER SELIM AY");
a.deleteTransportationPersonnel(a.getBranchEmployees()[i].getTransportationPersonnelName: "ilker selim");

for(i = 0; i < a.getBranchEmployees()[i].getTransportationPersonnelName: "ilker selim");

for(i = 0; i < a.getBranchEmployees()[i].get
```

```
System.out.println("add customer branch employee fatih oguz");
a.getBranchEmployees()[0].addCustomer(a.getBranchEmployees()[0].getCustomer(), new Customer( name: "Melike", Surname: "CAXIR"));
a.getBranchEmployees()[0].addCustomer(a.getBranchEmployees()[0].getCustomer(), new Customer( name: "Esra", Surname: "ERDINC"));
a.getBranchEmployees()[0].addCustomer(a.getBranchEmployees()[0].getCustomer(), new Customer( name: "Ahmet", Surname: "SOGUKPINAR"));

for(i = 0; i < a.getBranchEmployees()[0].getCustomerSize(); ++i) {
    System.out.println(a.getBranchEmployees()[0].getCustomer()[i]);
}

System.out.println("DELETE customer ESRA ERDINC BY branch employee fatih oguz ");
a.getBranchEmployees()[0].deleteCustomer(a.getBranchEmployees()[0].getCustomer(), CustomerName: "Esra", CustomerSurname: "ERDINC");

for(i = 0; i < a.getBranchEmployees()[0].getCustomerSize(); ++i) {
    System.out.println(a.getBranchEmployees()[0].getCustomer()[i]);
}

System.out.println(a.getBranchEmployees()[0].getCustomer()[i]);
a.getBranchEmployees()[0].addShipments(a.getBranchEmployees()[0].getShipments(), new Shipments(a.getBranchEmployees()[0].getCustomer()[0].getName: "System.out.println(a.getBranchEmployees()[0].getShipments()];
a.getBranchEmployees()[0].setTransportationPersonnel()[0].getCustomer()[0].getShipments(), trackingNumber: "84567");
a.getBranchEmployees()[0].getTransportationPersonnel()[0].DeliveredShipment (trackingNumber: "84567");
System.out.println("customer see information of shipments with tracking number");
a.getBranchEmployees()[0].getCustomer()[0].SeeingTheSituation(s, trackingNumber: "84567");
System.out.println("Customer see information of shipments with tracking number");
a.getBranchEmployees()[0].getCustomer()[0].SeeingTheSituation(s, trackingNumber: "84567");
System.out.println("Customer see information of shipments with tracking number");
a.getBranchEmployees()[0].getCustomer()[0].SeeingTheSituation(s, trackingNumber: "84567");
System.out.println("customer see information of shipments with tracking number");
a.getB
```

```
ADO TO BRANCHES
branches a
branches c
branches d
DELETE TO BRANCHES NAME branches b
BranchEmployees(names'Fath', surnames'OGUZ', branchNames'branches a', customer=[])
BranchEmployees(names'Selahaddin', surnames'Courted names' of the surnames' of the surna
```

```
dalete TO BRANCHEmployees measur oguz

BranchEmployees(name='Fatih', surname='OGUZ', branchName='branches a', custome==[])

BranchEmployees(name='Manil', surname='OGUZ', branchName='branches a', custome==[])

BranchEmployees(name='Selahaddin', surname='OGUZ', branchName='branches a', custome==[])

BranchEmployees(name='Selahaddin', surname='GOUZ', branchName='branches a', custome==[])

BranchEmployees(name='Selahaddin', surname='Amanddgi')

TransportationPersonnel(name='liker selia', surname='Amanddgi')

TransportationPersonnel(name='liker selia', surname='demirci')

Brill To transportationPersonnel(name='metin', surname='demirci')

Brill To transportationPersonnel(name='branches selia', surname='demirci')

BranchEmployees(name='Esra', surname='GADIR')

Custome=(name='Braile', surname='GADIR')

Custome=(name='Amane='Sera', surname='GADIR')

BranchEmployees(name='Malike', surname='GADIR')

BranchEmployees(name='Malike', surname='GADIR')

BranchEmployees(name='Malike', surname='GADIR')

BranchEmployees(name='Fatih', surname=
```