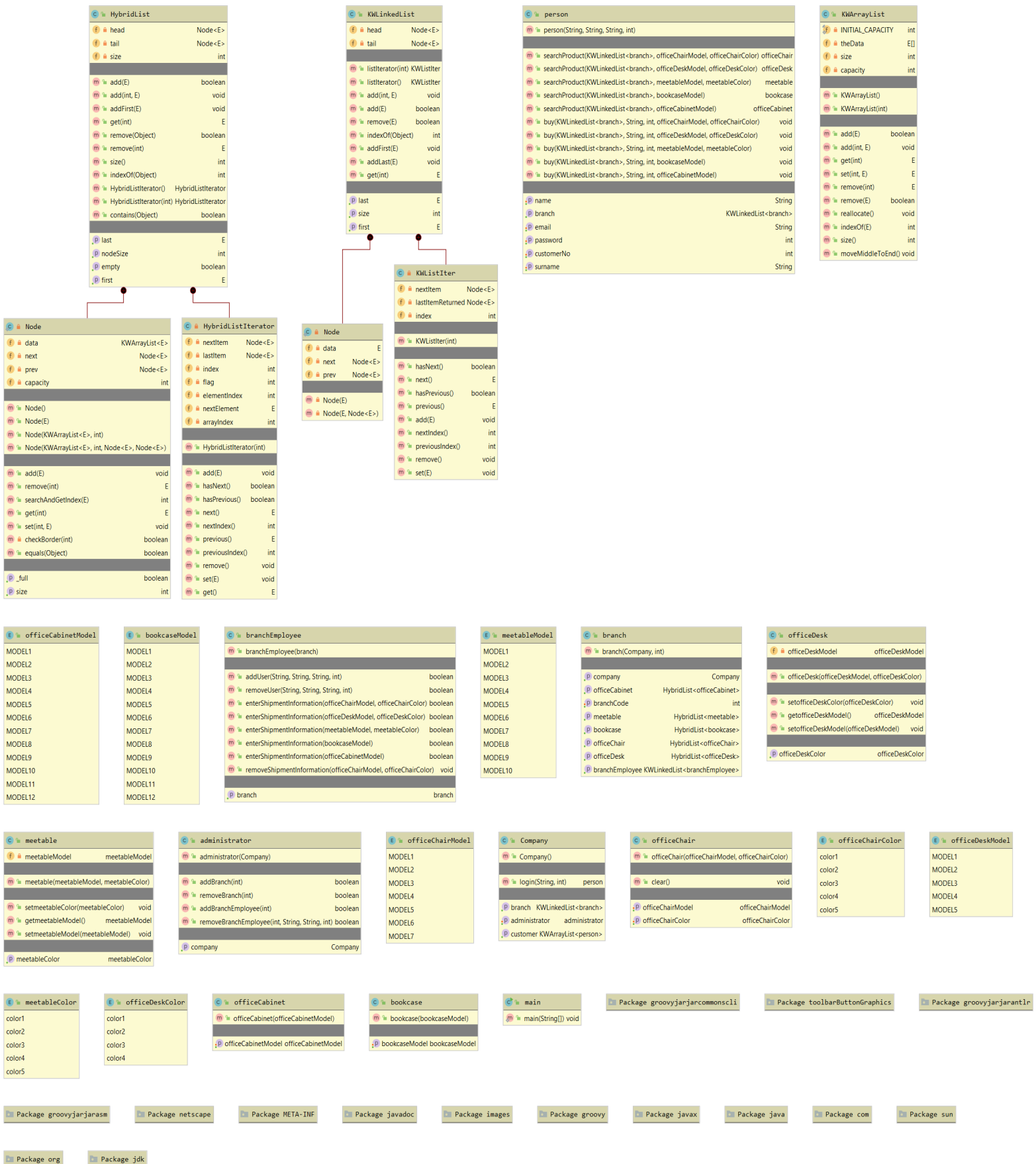


**GTU Department of  
Computer Engineering  
CSE 222/505 - Spring 2021  
Homework 3 Report**

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# Class Diagram



# Problem Solutions Approach

The job to be done by the admin is different, the job to be done by the customer is different. The work to be done by the employee is different, so they should only do the work they will do by themselves. Administrator's job is a must if the customer does. Because of this, privacy and security are important

The arraylist type variable is kept in the linked list. Therefore, the method of adding and deleting elements needs to be changed. The node class and the iterator class should be changed accordingly.

## Test cases

```
Company company=new Company();
administrator admin=new administrator(company);
company.setAdministrator(admin);
company.getAdministrator().addBranch( branchCode: 0);
company.getAdministrator().addBranch( branchCode: 1);
company.getAdministrator().addBranch( branchCode: 2);
company.getAdministrator().addBranch( branchCode: 3);
```

*create 4 branch by  
Administrator*

```
company.getAdministrator().addBranchEmployee( branchCode: 0);
company.getAdministrator().addBranchEmployee( branchCode: 0);
company.getAdministrator().addBranchEmployee( branchCode: 1);
company.getAdministrator().addBranchEmployee( branchCode: 2);
company.getAdministrator().addBranchEmployee( branchCode: 2);
company.getAdministrator().addBranchEmployee( branchCode: 2);
company.getAdministrator().addBranchEmployee( branchCode: 3);
company.getAdministrator().addBranchEmployee( branchCode: 3);
```

*add branch employee at  
branchcode"0"*  
*add branch employee at branch code "1"*  
*add branch employee at  
branch code "2"*  
*add branch employee at  
branch code "3"*

```
company.getBranch().get(0).getBranchEmployee().get(0).enterShipmentInformation(officeChairModel.MODEL1,officeChairColor.color1);
company.getBranch().get(0).getBranchEmployee().get(0).enterShipmentInformation(officeDeskModel.MODEL2,officeDeskColor.color2);
company.getBranch().get(0).getBranchEmployee().get(1).enterShipmentInformation(meetableModel.MODEL1,meetableColor.color4);
company.getBranch().get(0).getBranchEmployee().get(1).enterShipmentInformation(bookcaseModel.MODEL1);
```

*At BranchCode "0" by BranchEmployee "0" "1"*  
officeChairModel.MODEL1,officeChairColor.color1  
officeDeskModel.MODEL2,officeDeskColor.color2  
meetableModel.MODEL1,meetableColor.color4  
bookcaseModel.MODEL1

```
company.getBranch().get(1).getBranchEmployee().get(0).enterShipmentInformation(officeChairModel.MODEL1,officeChairColor.color1);
company.getBranch().get(1).getBranchEmployee().get(0).enterShipmentInformation(officeDeskModel.MODEL2,officeDeskColor.color2);
company.getBranch().get(1).getBranchEmployee().get(0).enterShipmentInformation(meetableModel.MODEL1,meetableColor.color4);
company.getBranch().get(1).getBranchEmployee().get(0).enterShipmentInformation(bookcaseModel.MODEL1);
```

*At Branch code "1" by BranchEmployee "0"*  
officeChairModel.MODEL1,officeChairColor.color1  
officeDeskModel.MODEL2,officeDeskColor.color2  
meetableModel.MODEL1,meetableColor.color4  
bookcaseModel.MODEL1

```
company.getBranch().get(2).getBranchEmployee().get(0).enterShipmentInformation(officeChairModel.MODEL1,officeChairColor.color1);
company.getBranch().get(2).getBranchEmployee().get(0).enterShipmentInformation(officeDeskModel.MODEL2,officeDeskColor.color2);
company.getBranch().get(2).getBranchEmployee().get(1).enterShipmentInformation(meetableModel.MODEL1,meetableColor.color4);
company.getBranch().get(2).getBranchEmployee().get(1).enterShipmentInformation(bookcaseModel.MODEL1);
```

```
company.getBranch().get(3).getBranchEmployee().get(0).enterShipmentInformation(officeChairModel.MODEL1,officeChairColor.color1);
company.getBranch().get(3).getBranchEmployee().get(0).enterShipmentInformation(officeDeskModel.MODEL2,officeDeskColor.color2);
company.getBranch().get(3).getBranchEmployee().get(1).enterShipmentInformation(meetableModel.MODEL1,meetableColor.color4);
company.getBranch().get(3).getBranchEmployee().get(1).enterShipmentInformation(bookcaseModel.MODEL1);
```



**ADD  
PRODUCT**

```
company.getBranch().get(0).getBranchEmployee().get(0).addUser( name: "orkun", surname: "arslan", email: "roa@gmail.com", password: 5858552);
company.getBranch().get(0).getBranchEmployee().get(0).addUser( name: "refik", surname: "arslan", email: "roa_05@gmail.com", password: 525254);
company.getBranch().get(2).getBranchEmployee().get(1).addUser( name: "re", surname: "arsn", email: "r_05@gmail.com", password: 528254);
```

**ADD  
USER**

```
company.login( email: "roa@gmail.com", password: 5858552).searchProduct(company.getBranch(),officeChairModel.MODEL1,officeChairColor.color1);
```

**LOGIN AND SEARCH**

```
company.login( email: "roa@gmail.com", password: 5858552).buy(company.getBranch(), Adres: "Adres", phone: 5355555,officeChairModel.MODEL1,officeChairColor.color1);
```

**Login and but  
product**

# Running command and results

```
Found it  
Branch :0  
Found it  
Branch :0  
Buy it
```

search product output  
found it and print branch code

buy product output  
if product available, print buy it