GTU Department of Computer Engineering
CSE 222/505 - Spring 2021
Homework 1 Report

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1.SYSTEM REQUIREMENTS

Description of the Project: The project provides us to manage a company that sells office furnitures by using software. In this project there are three different type users and they have different roles to handle this software.By using this system each user can make their own tasks. For example Administrator can add branch ,Branch employee can add office product ,Customer can purchase office product etc. Our aim is to ensure that both company manager ,company employees and customers can do their jobs quickly, safely and easily.

There are 3 types user for this project;

- Administrators
- Branch Employees
- Customers

The company has 4 different branches and sells both in-store and online. The store sells office chairs (7 models and for each, 5 colors), office desks (5 models and for each, 4 colors), meeting tables (10 models and for each, 4 colors), bookcases (12 models) and office cabinets (12 models).
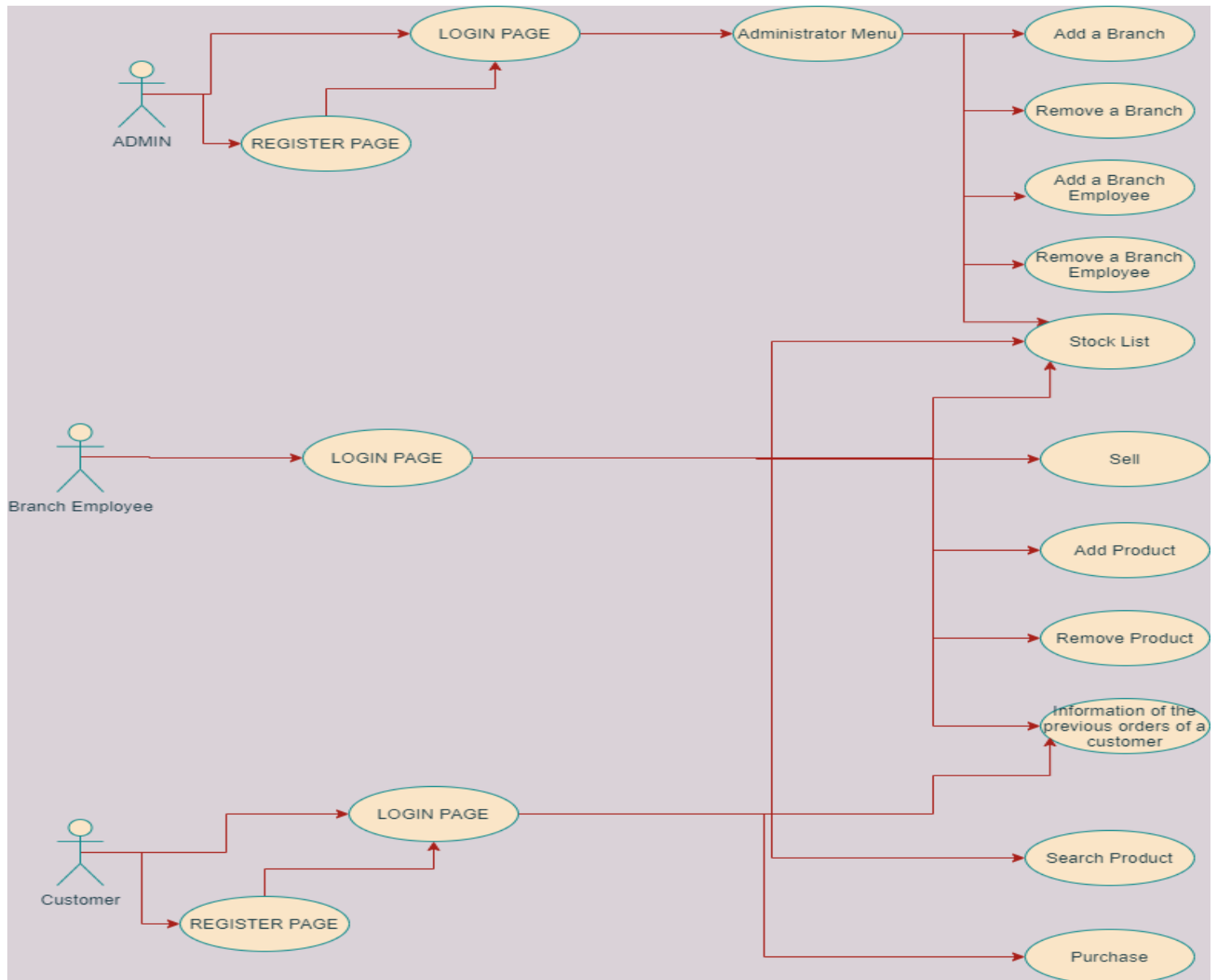
Administrators manage the system by adding and removing branches and branch employees. They can also query whether there are any products that need to be supplied.

Branch Employee can inquire about the products in stock, inform the manager that the product should be purchased when any product is less than the requested amount, add / remove products, make sales, access the information of the previous orders of a customer by using the customer number and add new order to this section. Branch employees should update the customers' previous orders section during their sales from the store. If the customer is shopping for the first time, then they should create a new subscription.
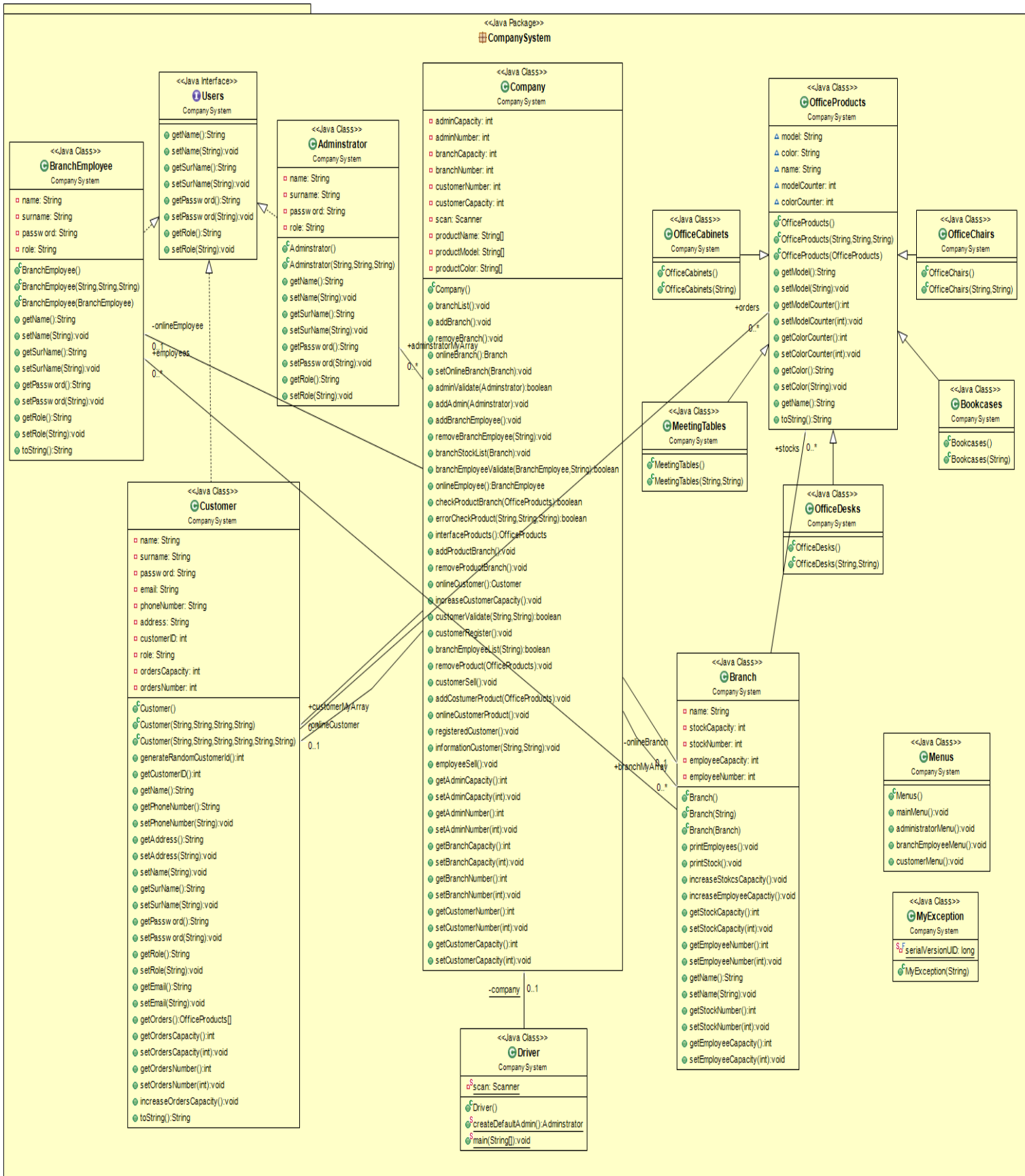
Customer requirements , A special customer number is defined for each customer in the system. When a person subscribes to the system, he/she uses his/her name, surname and e-mail address, and defines a password. When the registration is completed, the customer number is automatically defined in the system and the user is informed about it. When the customer logs into the system, they can search for products, see the list of products, see which store a product is in, shop online by entering address and phone information, and view their previous orders.

2.USE CASE AND CLASS DIAGRAMS

Use Case Diagram

Class Diagram

<<Java Package>>
CompanySystem

<<Java Interface>> Users — CompanySystem
- getName():String
- setName(String):void
- getSurName():String
- setSurName(String):void
- getPassword():String
- setPassword(String):void
- getRole():String
- setRole(String):void

<<Java Class>> BranchEmployee — CompanySystem
- name: String
- surname: String
- password: String
- role: String

- BranchEmployee()
- BranchEmployee(String,String,String)
- BranchEmployee(BranchEmployee)
- getName():String
- setName(String):void
- getSurName():String
- setSurName(String):void
- getPassword():String
- setPassword(String):void
- getRole():String
- setRole(String):void
- toString():String

<<Java Class>> Adminstrator — CompanySystem
- name: String
- surname: String
- password: String
- role: String

- Adminstrator()
- Adminstrator(String,String,String)
- getName():String
- setName(String):void
- getSurName():String
- setSurName(String):void
- getPassword():String
- setPassword(String):void
- getRole():String
- setRole(String):void

<<Java Class>> Company — CompanySystem
- adminCapacity: int
- adminNumber: int
- branchCapacity: int
- branchNumber: int
- customerNumber: int
- customerCapacity: int
- scan: Scanner
- productName: String[]
- productModel: String[]
- productColor: String[]

- Company()
- branchList():void
- addBranch():void
- removeBranch():void
- onlineBranch():Branch
- setOnlineBranch(Branch):void
- adminValidate(Adminstrator):boolean
- addAdmin(Adminstrator):void
- addBranchEmployee():void
- removeBranchEmployee(String):void
- branchStockList(Branch):void
- branchEmployeeValidate(BranchEmployee,String):boolean
- onlineEmployee():BranchEmployee
- checkProductBranch(OfficeProducts):boolean
- errorCheckProduct(String,String,String):boolean
- interfaceProducts():OfficeProducts
- addProductBranch():void
- removeProductBranch():void
- onlineCustomer():Customer
- increaseCustomerCapacity():void
- customerValidate(String,String):boolean
- customerRegister():void
- branchEmployeeList(String):boolean
- removeProduct(OfficeProducts):void
- customerSell():void
- addCostumerProduct(OfficeProducts):void
- onlineCustomerProduct():void
- registeredCustomer():void
- informationCustomer(String,String):void
- employeeSell():void
- getAdminCapacity():int
- setAdminCapacity(int):void
- getAdminNumber():int
- setAdminNumber(int):void
- getBranchCapacity():int
- setBranchCapacity(int):void
- getBranchNumber():int
- setBranchNumber(int):void
- getCustomerNumber():int
- setCustomerNumber(int):void
- getCustomerCapacity():int
- setCustomerCapacity(int):void

<<Java Class>> Customer — CompanySystem
- name: String
- surname: String
- password: String
- email: String
- phoneNumber: String
- address: String
- customerID: int
- role: String
- ordersCapacity: int
- ordersNumber: int

- Customer()
- Customer(String,String,String,String)
- Customer(String,String,String,String,String,String)
- generateRandomCustomerId():int
- getCustomerID():int
- getName():String
- getPhoneNumber():String
- setPhoneNumber(String):void
- getAddress():String
- setAddress(String):void
- setName(String):void
- getSurName():String
- setSurName(String):void
- getPassword():String
- setPassword(String):void
- getRole():String
- setRole(String):void
- getEmail():String
- setEmail(String):void
- getOrders():OfficeProducts[]
- getOrdersCapacity():int
- setOrdersCapacity(int):void
- getOrdersNumber():int
- setOrdersNumber(int):void
- increaseOrdersCapacity():void
- toString():String

<<Java Class>> OfficeProducts — CompanySystem
- model: String
- color: String
- name: String
- modelCounter: int
- colorCounter: int

- OfficeProducts()
- OfficeProducts(String,String,String)
- OfficeProducts(OfficeProducts)
- getModel():String
- setModel(String):void
- getModelCounter():int
- setModelCounter(int):void
- getColorCounter():int
- setColorCounter(int):void
- getColor():String
- setColor(String):void
- getName():String
- toString():String

<<Java Class>> OfficeCabinets — CompanySystem
- OfficeCabinets()
- OfficeCabinets(String)

<<Java Class>> OfficeChairs — CompanySystem
- OfficeChairs()
- OfficeChairs(String,String)

<<Java Class>> Bookcases — CompanySystem
- Bookcases()
- Bookcases(String)

<<Java Class>> MeetingTables — CompanySystem
- MeetingTables()
- MeetingTables(String,String)

<<Java Class>> OfficeDesks — CompanySystem
- OfficeDesks()
- OfficeDesks(String,String)

<<Java Class>> Branch — CompanySystem
- name: String
- stockCapacity: int
- stockNumber: int
- employeeCapacity: int
- employeeNumber: int

- Branch()
- Branch(String)
- Branch(Branch)
- printEmployees():void
- printStock():void
- increaseStokcsCapacity():void
- increaseEmployeeCapactiy():void
- getStockCapacity():int
- setStockCapacity(int):void
- getEmployeeNumber():int
- setEmployeeNumber(int):void
- getName():String
- setName(String):void
- getStockNumber():int
- setStockNumber(int):void
- getEmployeeCapacity():int
- setEmployeeCapacity(int):void

<<Java Class>> Menus — CompanySystem
- Menus()
- mainMenu():void
- administratorMenu():void
- branchEmployeeMenu():void
- customerMenu():void

<<Java Class>> MyException — CompanySystem
- serialVersionUID: long
- MyException(String)

<<Java Class>> Driver — CompanySystem
- scan: Scanner
- Driver()
- createDefaultAdmin():Adminstrator
- main(String[]):void

Relationship labels:
- -onlineEmployee
- +employees 0..*
- +administratorMyArray 0..*
- +orders 0..*
- +stocks 0..*
- +customerMyArray / onlineCustomer 0..1
- -onlineBranch
- +branchMyArray 0..*
- -company 0..1

4.PROBLEM SOLUTION APPROACH

My Problem solution steps are;

-Specify the problem requirements

-Analyze the problem

-Design an algorithm and Program

-Implement the algorithm

-Test and verify the program

4.1) Specify the problem requirements: I understand the problem.

4.2) Analyze the problem: I identify; input data, output data, Additional requirements and constraints.

4.3) Design an algorithm and Program: I divide the problem into sub-problems. I listed major steps (sub-problems). I break down each step into a more detailed list. To do these We have to divide this big project into small pieces. First of all I started with user type we need divide them with seperate classes. And then to handle all data we need to write a class that manipulate the data. And lastly if we combine all these we can complete the project.

4.4) Implement the algorithm: I wrote the algorithm in Java by converting each step into statements of Java (classes, methods etc.)

I wrote user interface at first. Then I wrote my classes for my user types such as Administrator, Branch Employee, Customer. I implemented it in every class according to its own features. Secondly I wrote the Office Products. I put the common operation and data field among the products. Then I wrote I wrote classes for Office types such as OfficeChair, OfficeDesk, Bookcase, MeetingTable, OfficeCabinets. Since it has company branches, I wrote a branch class that holds these branching properties and includes their methods. I wrote Company class, this class is the core class of the system. The whole operation revolves through this class. I wrote the Driver class with the menu structure so that the system can be tested and interactive.

4.5) Test and verify the program: I run the program for several input cases

3.TEST CASE:

Test Case ID	Test Scenario	Test Cases	Test Step	Test Data	Expect Results	Actual Results	Pass /Fail
T1	Check Admin Login	Check response on Entering Valid Agent Name & Surname & Password	1.Launch Application 2.Select 1 (Administrator) 3.Enter Admin name. 4.Enter Admin surname. 5.Enter Admin password.	Admin name: admin Admin surname: admin Admin password: admin	Enter Administrator menu	As expect	Pass
		Check response on Entering invalid Agent Name & Surname & Password	1.Launch Application 2.Select 1 (Administrator) 3.Enter Admin name. 4.Enter Admin surname. 5.Enter Admin password.	Admin name: test Admin surname: test Admin password: test	Error: Not Login Because Wrong Information	As expect	Pass
T2	Check Admin Register	Check response Entering not registered in the system Name & Surname & Password	1.Launch Application 2.Select 4(Add a admin) 3.Enter Admin name. 4.Enter Admin surname. 5.Enter Admin password.	Admin name : Gtu Admin surname: GTU Admin password: GTU	Registered Admin and Return Main Menu	As expect	Pass

		Check response Entering registered in the system Name & Surname	1.Launch Application 2.Select 4(Add a admin) 3.Enter Admin name 4.Enter Admin surname. 5.Enter Admin password.	Admin name: admin Admin surname: admin Admin password: admin	Not registered There is a admin with the same name	As expect	Pass
T3	Check Add a Branch	Check response Entering not registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 1 (Add a Branch)	Enter the new branch's name: newBranch	newBranch adding and Return Admin menu	As expect	Pass
		Check response Entering registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 1 (Add a Branch)	Enter the new branch's name: Branch1	Not adding. There is a branch with the same name	As expect	Pass
T4	Check Remove a Branch	Check response Entering branch not registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 2(RemoveBranch)	Enter the name of the branch that you want to remove: newBranch	Branch is not found and return Admin menu	As expect	Pass

		Check response Entering branch registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 2(RemoveBranch)	Enter the name of the branch that you want to remove: Branch1	Remove Branch and return Administrator Menu	As expect	Pass
T5	Check Add a Branch Employee	Check response Entering branch not registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 3(Add a Branch Employee)	Enter the Branch: test	Branch is not found and return Administrator menu	As expect	Pass
		Check response Entering branch registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 3(Add a Branch Employee)	Enter the Branch: Branch1	Branch1's employees:	As expect	Pass
		Check response Entering branch registered in the system Name and entering Employee's information	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 3(Add a Branch Employee)	Enter the Branch: Branch1 Enter the new branch employee's name: test Enter the new branch employee's surname:test Enter the new branch employee's password:s	Add employee and return Administrator menu	As expect	Pass

T6	Check Remove a Branch Employee	Check response Entering branch not registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 4 (Remove a Branch Employee)	Enter the Branch: test	Branch is not found and return Administrator menu	As expect	Pass
		Check response Entering branch registered in the system Name and invalid employee information	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 4 (Remove a Branch Employee)	Enter the Branch: Branch1 Enter the branch employee's name: test Enter the branch employee's surname: test	`Branch Employee is not found and return Administrator menu`	As expect	Pass
		Check response Entering branch registered in the system Name and valid employee information	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 4 (Remove a Branch Employee)	Enter the Branch: Branch1 Enter the branch employee's name: emp1 Enter the branch employee's surname: emp1	`Remove Branch Employee and Return Administrator menu`	As expect	Pass
T7	Check Stock List	Check response Entering Branch is not register in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 5 (Stock List)	Choice Branch's name: test	Branch is not found and return Administrator menu	As expect	Pass

		Check response Entering Branch registered in the system Name	1.Launch Application 2.Select 1 (Administration) 3.Login admin page 4.Select 5 (Stock List)	Choice Branch's name: Branch1	Branch1 in stock is listed and return Administrator	As expect	Pass
T8	Check Main Menu Choice input	Check response Entering One of the options on the menu	1.Launch Application 2.Select 1(Administrator) 2(Branch Employee) 3(customer) 4(Add an admin) 0(Exit)	Enter input:1 Or Enter input:2 Or Enter input:3 Or Enter input:4 Or Enter input:0	(If input 1) Administrator Menu (If input 2) Branch Employee Menu (ıf input 3) Customer Menu (ıf input 4) Add an Admin (if input 0) System Terminated!!	As expect	Pass
		Check response Entering invalid of the options on the menu	1.Launch Application 2.Select 1(Administrator) 2(Branch Employee) 3(customer) 4(Add an admin) 0(Exit)	Enter input:wqeq	Error: You entered an invalid input	As expect	Pass
T9	Check Administrator Menu Choice input	Check response Entering One of the options on the menu	1.Launch Application 2.Login Admin 3.Select 1-2-3-4-5-6-0	Enter input: 1 or 2 or 3 or 4 or 5 or 0	1-Add a branch or 2-Remove a Branch or 3-Add a Branch Employee or 4-Remove a Branch Employee or 5-Stock List or 0-Return to main menu	As expect	Pass

		Check response Entering invalid of the options on the menu	1.Launch Application 2.Login Admin 3.Select 1-2-3-4-5-6-0	Enter input : dsa	`Error: You entered an invalid input! Return Administrator menu`	As expect	Pass

T10	Check Login Branch Employee	Check response Entering invalid branch name	1.Launch Application
			
			2.Select 2(Branch Employee)
				`1 : Branch1`
				`2 : Branch2`
				`3 : Branch3`
				`4 : Branch4`
				`  Choice`
				`Branch's`
				`name:`
				`sdadadad`
					Branch is not found and return Main menu	As expect	Pass

		Check response Entering valid branch name and invalid Branch Employee information	1.Launch Application
			
			2.Select 2(Branch Employee)
				`Branch's`
				`name:`
				`Branch1`
				
				`Employee's`
				`name:emp1`
				`Employee's`
				`surname:emp1`
				`Employee's`
				`password:emp1`
					Return Branch Employee Menu	As expect	Pass

		Check response Entering valid branch name and invalid Branch Employee information	1.Launch Application
			
			2.Select 2(Branch Employee)
				`Branch's`
				`name:`
				`Branch1`
				
				`Employee's`
				`name:ads`
				`Employee's`
				`surname:sad`
				`Employee's`
				`password:sad`
					`Error:Not Login Because Wrong Information and Return Main Menu`	As expect	Pass

T11	Check Branch Employee Stock List	Check Stock List	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 1(Stock List)	Branch Employee Menu Enter input : 1	Branch stock List listing	As expect	Pass

T12	Check Branch Employee Information of the previous orders of a customer.	Check Branch Employee Information of the previous orders of a customer. Invalid customer information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 2(Information of the previous orders of a customer.)	Branch Employee Menu Enter input : 2 What is your email? Sadasd What is your password? sadad	Error: Wrong Customer information	As expect	Pass
		Check Branch Employee Information of the previous orders of a customer. Valid customer information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 2(Information of the previous orders of a customer.)	Branch Employee Menu Enter input : 2 What is your email? customer@gmail.com What is your password? 123	THE CUSTOMER HAS NO OLD ORDERS	As expect	Pass
T13	Check Branch Employee Sell	Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Invalid choice	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell)	Branch Employee Menu Enter input : 3 Are you registered in system?(Y(yes) or N(no) sadasd	Return Branch Employee Menu	As expect	Pass

		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice y or Y And invalid customer information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell)	Branch Employee Menu Enter input : 3 `Are you registered in system?(Y(yes) or N(no)` `Y or y` What is your email? Sdaa What is your password? sadas	Not MEMBER IN THE SYSTEM NEW MEMBER REGISTRATION And get new informations `Enter Customer's name:` `Enter Customer's surname:` `Enter Customer's email:` `Enter Customer's password:` `Enter Customer's address:` `Enter Customer's phone number:`	As expect	Pass
		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice n or N	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell)	Branch Employee Menu Enter input : 3 `Are you registered in system?(Y(yes) or N(no)` `N or n` `Enter Customer's name: ozan` `Enter Customer's surname: geckin` `Enter Customer's email: ozan@gmail.com` `Enter Customer's password: 123` `Enter Customer's address: Uskudar/Ist` `Enter Customer's phone number: 05445649684`	Adding Customer and Return Branch Employee menu	As expect	Pass

		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice y or Y And valid customer information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell	Branch Employee Menu Enter input : 3 Are you registered in system?(Y(yes) or N(no) Y or y What is your email? customer@gmail.com What is your password? 123	Sorts the previous orders, if not, prints "noting product". Prints the stock list of the and allows you to select the product from the list.	As expect	Pass
		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice y or Y And valid customer information And select valid product	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell	Branch Employee Menu Enter input : 3 Are you registered in system?(Y(yes) or N(no) Y or y What is your email? customer@gmail.com What is your password? 123 Product's counter :1 Please Enter Model Name: model1 Please Enter Color Name: red	Sorts the previous orders, if not, prints "noting product". Prints the stock list of the and allows you to select the product from the list. If you choose a valid product, it assigns the product to the customer's orders .Return Branch Employee Menu	As except	Pass
		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice y or Y And valid customer information And select invalid product	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell	Branch Employee Menu Enter input : 3 Are you registered in system?(Y(yes) or N(no) Y or y What is your email? customer@gmail.com What is your password? 123	Admin informed Invalid Product And return Branch Employee Menu	As except	Pass

				Product's counter :1 Please Enter Model Name: sda Please Enter Color Name: dsa			
		Check Branch Employee Sell Are you Registered in System?(Y or y or N or n) Choice y or Y And valid customer information And select valid product but not stock	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 3(Sell	Branch Employee Menu Enter input : 3 Are you registered in system?(Y(yes) or N(no) Y or y What is your email? customer@gmail.com What is your password? 123 (product is not stock) Product's counter :1 Please Enter Model Name: model1 Please Enter Color Name: red	Unfortunately, The Product is not in stock and return Branch Employee menu	As except	Pass
T14	Check Branch Employee Add Product	Check Branch Employee Add product and valid product information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 4(Add product)	Branch Employee Menu Enter input:4 Listener Branch stock Product's counter :1 Please Enter Model Name: model1 Please Enter Color Name: red	Adding product in Branch stock and Return Branch Employee menu	As except	Pass

		Check Branch Employee Add product and invalid product information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 4(Add product)	Branch Employee Menu Enter input:4 Listener Branch stock Product's counter :1 Please Enter Model Name: sda Please Enter Color Name: ads	Invalid Product Not adding branch stock and Return Branch Employee Menu	As except	Pass
T15	Check Branch Employee Remove Product	Check Branch Employee Remove product and valid product information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 5(Remove product)	Branch Employee Menu Enter input:5 Listener Branch stock Product's counter :1 Please Enter Model Name: model1 Please Enter Color Name: red	Remove Product and Return Branch Employee	As except	Pass
		Check Branch Employee Remove product and invalid product information	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 5(Remove product)	Branch Employee Menu Enter input:5 Listener Branch stock Product's counter :1 Please Enter Model Name: sda Please Enter Color Name: ads	Invalid Product and Return Branch Employee Menu	As except	Pass
		Check Branch Employee Remove product and valid product information but product is not Branch stock	1.Launch Application 2.Select 2(Branch Employee) 3.Login Branch Employee 4.Select 5(Remove product)	Branch Employee Menu Enter input:5 Listener Branch stock Product's counter :5 Please Enter Model Name: model1 Please Enter Color Name: red	Admin informed Invalid Product and Return Branch Employee menu	As except	Pass

T16	Check Branch Employee Menu Choice input	Check response Entering One of the options on the menu	1.Launch Application
			
			2.Select 2(Branch Employee)
			
			3.Login Branch Employee
			
			4.Select 1-2-3-4-5-0
				Enter input : 1 or 2 or 3 or 4 or 5 or 0	(If input 1)
					Stock List
					(If input 2)
					`Information of the previous orders of a customer`
					(if input 3)
					`Sell`
					(if input 4)
					`Add Product`
					(if input 5)
					`Remove Product`
					(if input 0)
					`Return to Main Menu`
						As except	Pass

		Check response Entering invalid of the options on the menu	1.Launch Application 2.Select(Branch Employee) 3.Login Branch Employee 4.Select 1-2-3-4-5-0	Enter input : sadas	`Error: You entered an invalid input!`	As except	Pass
T17	Check Login Customer	Check Are you Registered in System?(Y or y or N or n) Invalid choice	1.Launch Application 2.Select 3 (Customer)	`Are you registered in system?(Y(yes) or N(no)` sadasd	Return Main Menu	As except	Pass
		Check Are you Registered in System?(Y or y or N or n) Choice y or Y And invalid customer information	1.Launch Application 2.Select 3 (Customer)	`Are you registered in system?(Y(yes) or N(no)` Y or y What is your email? Sdaa What is your password? sadas	Not MEMBER IN THE SYSTEM NEW MEMBER REGISTRATION And get new informations	As except	Pass

		Check Are you Registered in System?(Y or y or N or n) Choice n or N	1.Launch Application 2.Select 3 (Customer)	`Are you registered in system?(Y(yes) or N(no)` `N or n` `Enter Customer's name: ozan` `Enter Customer's surname: geckin` `Enter Customer's email: ozan@gmail.com` `Enter Customer's password: 123` `Enter Customer's address: Uskudar/Ist` `Enter Customer's phone number: 05445649684`	Adding Customer and Return Main Menu	As except	Pass
		Check Are you Registered in System?(Y or y or N or n) Choice y or Y And valid customer information	1.Launch Application 2.Select 3 (Customer)	`Are you registered in system?(Y(yes) or N(no)` `Y or y` What is your email? customer@gmail.com What is your password? 123	Login succus And Return Customer Menu	As except	Pass
T18	Check Product List Customer	Check response Entering Branch is not register in the system Name	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 2 (Search Product)	Enter input:2 Choice Branch's name: test	Branch is not found and return customer menu	As except	Pass
		Check response Entering Branch registered in the system Name	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select2 (Product List)	Enter input :2 Choice Branch's name: Branch1	Branch1 in stock is listed and return customer menu	As except	Pass

T19	Check Search Product	Check response Entering Branch is not register in the system Name	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 1 (Search Product)	Enter input:1 Choice Branch's name: test	Branch is not found and return customer menu	As except	Pass

		Check response Entering Branch registered in the system Name and invalid product	1.Launch Application
			
			2.Select 3 (customer)
			
			3.Login customer
			
			4.Select 1 (Search Product)
				Enter input:1
				
				Choice Branch's name: Branch1
				
				Listener Branch stock
				
				Product's counter :1
				Please Enter Model Name: sda
				Please Enter Color Name: ads
					`Admin informed`
					`Invalid Product`
					`Unfortunately,`
					`the product you`
					`are looking for`
					`is out of our`
					`Branch1 branch.`
					`And Return`
					`Customer Menu`
						As except	Pass

		Check response Entering Branch registered in the system Name and valid product	1.Launch Application
			
			2.Select 3 (customer)
			
			3.Login customer
			
			4.Select 1 (Search Product)
				Enter input:1
				
				Choice Branch's name: Branch1
				
				Listener Branch stock
				
				Product's counter :1
				Please Enter Model Name: model1
				Please Enter Color Name: red
					`if Branch have`
					`product`
					`We have the`
					`product`
					`Else,`
					`Unfortunately,`
					`the product you`
					`are looking for`
					`is out of our`
					`Branch1 branch.`
					`Return Custom`
					`menu`
						As except	Pass

T20	Check customer `Information` of the previous orders	Check if the customer has previous orders, lists them	1.Launch Application
			
			2.Select 3 (customer)
			
			3.Login customer
			
			4.Select 4 (Information of the previous orders)
				Customer Menu
				
				Enter input :4
					`Remove product`
					`Branch stock`
					`Previous orders`
					`listening.`
						As except	Pass

		Check Customer has not previous orders.	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 4 (Information of the previous orders)	Customer Menu Enter input :4	THE CUSTOMER HAS NO OLD ORDERS	As except	Pass
T21	Check Customer Purchase	Check response Entering Branch is not register in the system Name	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 3 (Purchase)	Customer Menu Enter input: 3 Choice Branch name: sad	Invalid Branch name	As except	Pass
		Check response Entering Branch is register in the system Name and invalid product	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 3 (Purchase)	Customer Menu Enter input: 3 Choice Branch name: Branch1 Listener Branch stock Product's counter :1 Please Enter Model Name: sda Please Enter Color Name: ads	Invalid Product Admin informed	As except	Pass
		Check response Entering Branch is register in the system Name and valid product but product is not stock	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 3 (Purchase)	Customer Menu Enter input: 3 Choice Branch name: Branch1 Listener Branch stock Product's counter :5 Please Enter Model Name: model1 Please Enter Color Name: red	Unfortunetly, The product is not in stock, Admin informed	As except	Pass

		Check response Entering Branch is register in the system Name and valid product and product is stock	1.Launch Application 2.Select 3 (customer) 3.Login customer 4.Select 3 (Purchase)	Customer Menu Enter input: 3 Choice Branch name: Branch1 Listener Branch stock Product's counter :1 Please Enter Model Name: model1 Please Enter Color Name: red	`Remove Product Branch Stock and adding customer orders Return Customer Menu`	As except	Pass

T22	Check Customer Menu Choice input	Check response Entering One of the options on the menu	1.Launch Application
			
			2.Select 3 (Customer)
			
			3.Login Customer
			
			4.Select 1-2-3-4-0
				Customer Menu
				
				Enter input: 1 or 2 or 3 or 4 or 0
					(If input 1)
					`Search Product`
					(If input 2)
					`Product List`
					(ıf input 3)
					`Purchase`
					(ıf input 4)
					`Information of the previous orders`
					(if input 0)
					`Return to Main Menu`
						As except	Pass

		Check response Entering invalid of the options on the menu	1.Launch Application 2.Select 3 (Customer) 3.Login Customer 4.Select 1-2-3-4-0	Customer Menu Enter input: asd	`Error: You entered an invalid input!`	As except	Pass

6.RUNNING AND RESULTS

T1 & T2:

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 1
****WELCOME ADMIN LOGIN SCREEN
Hint: Admin's Name :admin, Admin's Surname= admin, Admin's Password= admin
Admin name: xxxxx
Admin surname: xxxxx
Admin password: xxxxx

Error:Not Login Because Wrong Information

****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 4
Enter the new admin's name: ozan
Enter the new admin's surname: geckin
Enter the new admin's password: 1801042103
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 1
****WELCOME ADMIN LOGIN SCREEN
Hint: Admin's Name :admin, Admin's Surname= admin, Admin's Password= admin
Hint: Admin's Name :ozan, Admin's Surname= geckin, Admin's Password= 1801042103
Admin name: ozan
Admin surname: geckin
Admin password: 1801042103

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input:
```

T3:

```
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 1
****WELCOME ADMIN LOGIN SCREEN
Hint: Admin's Name :admin, Admin's Surname= admin, Admin's Password= admin
Admin name: admin
Admin surname: admin
Admin password: admin

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the name of the branch that you want to remove: newBranch
Branch is not found

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the name of the branch that you want to remove: Branch1
Remove Branch

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input:
```

T4:

```
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 1
****WELCOME ADMIN LOGIN SCREEN
Hint: Admin's Name :admin, Admin's Surname= admin, Admin's Password= admin
Admin name: admin
Admin surname: admin
Admin password: admin

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the name of the branch that you want to remove: newBranch
Branch is not found

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the name of the branch that you want to remove: Branch1
Remove Branch

****WELCOME ADMINISTRATOR MENU****
    ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input:
```

T5:

```
****WELCOME ADMIN LOGIN SCREEN
Hint: Admin's Name :admin, Admin's Surname= admin, Admin's Password= admin
Admin name: admin
Admin surname: admin
Admin password: admin

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 3
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the Branch: asd
Branch is not found

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 3
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Enter the Branch: Branch1
Branch1's employees:
Employee name: emp1 ,Employee surname: emp1 ,Hint: Employee Password: emp1
Employee name: emp2 ,Employee surname: emp2 ,Hint: Employee Password: emp2
Enter the new branch employee's name:ozan
Enter the new branch employee's surname:ozan
Enter the new branch employee's password:123
Add employee
```

T6:

```
Enter input: 4
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: test
Branches List:
Branch is not found

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 4
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
Branches List:
1 : emp1 emp1
2 : emp2 emp2
3 : ozan geckin
Enter the branch employee's name: test
Enter the branch employee's surname: test
Branch Employee is not found

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 4
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
Branches List:
1 : emp1 emp1
2 : emp2 emp2
3 : ozan geckin
Enter the branch employee's name: emp1
Enter the branch employee's surname: emp1
Remove Branch Employee
```

T7:

```
****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 5
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Choice Branch's name: test
Branch is not found

****WELCOME ADMINISTRATOR MENU****
     ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 5
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
Choice Branch's name: Branch1
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )
```

T8:

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: sadsa

Error: You entered an invalid input!

****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 0
System Terminated!!
```

T9:

```
****WELCOME ADMINISTRATOR MENU****
      ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: wqeq

Error: You entered an invalid input!


****WELCOME ADMINISTRATOR MENU****
      ***SELECT THE OPERATION***
1 - Add a Branch
2 - Remove a Branch
3 - Add a Branch Employee
4 - Remove a Branch Employee
5 - Stock List
0 - Return to Main Menu
Enter input: 0
****WELCOME COMPANY SYSYEM****
```

T10:

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: sada

Branch is not found
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
1 : Employee name: emp1 ,Employee surname: emp1 ,Hint: Employee Password: emp1
2 : Employee name: emp2 ,Employee surname: emp2 ,Hint: Employee Password: emp2

****WELCOME BRANCH EMPLOYEE LOGIN SCREEN****
Employee's name: sad
Employee's surname: sad
Employee's password: dsa

Error:Not Login Because Wrong Information
```

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
1 : Employee name: emp1 ,Employee surname: emp1 ,Hint: Employee Password: emp1
2 : Employee name: emp2 ,Employee surname: emp2 ,Hint: Employee Password: emp2

****WELCOME BRANCH EMPLOYEE LOGIN SCREEN****
Employee's name: emp1
Employee's surname: emp1
Employee's password: emp1

****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input:
```

T11:

```
****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 1
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input:
```

T12:

```
****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 2

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Uskudar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632
What is your email?
dasd
What is your password?
sda
Error: Wrong Customer information

****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 2

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Uskudar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632
What is your email?
customer@gmail.com
What is your password?
123
THE CUSTOMER HAS NO OLD ORDERS


****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 3

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Uskudar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632

WELCOME TO THE AUTOMATIC SALES SYSTEM
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
customer@gmail.com
What is your password?
123
WELCOME TO SYSTEM customerold ordes
Noting Product
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:1
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
```

```
5 : model5
6 : model6
7 : model7
Please Enter Model Name: model1
1 : black
2 : red
3 : blue
4 : green
5 : pink
Please Enter Color Name: red
Remove Product

****WELCOME BRANCH EMPLOYEE MENU****
     ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 2

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Usküdar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632
What is your email?
customer@gmail.com
What is your password?
123
Office Chair( Model : model1 , Color : red )

****WELCOME BRANCH EMPLOYEE MENU****
     ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input:
```

T13:

```
****WELCOME BRANCH EMPLOYEE MENU****
     ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 3

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Usküdar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632

WELCOME TO THE AUTOMATIC SALES SYSTEM
Are you registered in system?(Y(yes) or N(no)
sad

****WELCOME BRANCH EMPLOYEE MENU****
     ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 3

Customers Registered In The System
1 : Customer ID: 9975745, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Usküdar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 5475038, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632

WELCOME TO THE AUTOMATIC SALES SYSTEM
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
sad
What is your password?
sda
NOT MEMBER IN THE SYSTEM
NEW MEMBER REGISTRATION
Enter Customer's name:
ozan
Enter Customer's surname:
geckin
Enter Customer's email:
ozan@gmail.com
Enter Customer's password:
123
Enter Customer's address:
uskudar/1st
Enter Customer's phone number:
05445649684
```

```
****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 3

Customers Registered In The System
1 : Customer ID: 2364880, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 8063708, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 8605323, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/?st, Customer's PhoneNumber: 05445649684

WELCOME TO THE AUTOMATIC SALES SYSTEM
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
ozan@gmail.com
What is your password?
123
WELCOME TO SYSTEM ozanold ordes
Noting Product
1 : Office Chair( Model : model2 , Color : red )
2 : Office Chair( Model : model3 , Color : red )
3 : Office Chair( Model : model4 , Color : red )
4 : Office Chair( Model : model5 , Color : red )
5 : Office Chair( Model : model6 , Color : red )
6 : Office Chair( Model : model7 , Color : red )
7 : Office Chair( Model : model1 , Color : blue )
8 : Office Chair( Model : model2 , Color : blue )
9 : Office Chair( Model : model3 , Color : blue )
10 : Office Chair( Model : model4 , Color : blue )
11 : Office Chair( Model : model5 , Color : blue )
12 : Office Chair( Model : model6 , Color : blue )
13 : Office Chair( Model : model7 , Color : blue )
14 : Office Chair( Model : model1 , Color : green )
15 : Office Chair( Model : model2 , Color : green )
16 : Office Chair( Model : model3 , Color : green )
17 : Office Chair( Model : model4 , Color : green )
18 : Office Chair( Model : model5 , Color : green )
19 : Office Chair( Model : model6 , Color : green )
20 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:2
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5


3 : model3
4 : model4
5 : model5
Please Enter Model Name: model3
1 : black
2 : red
3 : blue
4 : green
Please Enter Color Name: black
Unfortunetly,The product is not in stock

****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 3

Customers Registered In The System
1 : Customer ID: 2364880, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 8063708, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 8605323, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/?st, Customer's PhoneNumber: 05445649684

WELCOME TO THE AUTOMATIC SALES SYSTEM
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
ozan@gmail.com
What is your password?
123
WELCOME TO SYSTEM ozanold ordes
Noting Product
1 : Office Chair( Model : model2 , Color : red )
2 : Office Chair( Model : model3 , Color : red )
3 : Office Chair( Model : model4 , Color : red )
4 : Office Chair( Model : model5 , Color : red )
5 : Office Chair( Model : model6 , Color : red )
6 : Office Chair( Model : model7 , Color : red )
7 : Office Chair( Model : model1 , Color : blue )
8 : Office Chair( Model : model2 , Color : blue )
9 : Office Chair( Model : model3 , Color : blue )
10 : Office Chair( Model : model4 , Color : blue )
11 : Office Chair( Model : model5 , Color : blue )
12 : Office Chair( Model : model6 , Color : blue )
13 : Office Chair( Model : model7 , Color : blue )
14 : Office Chair( Model : model1 , Color : green )
15 : Office Chair( Model : model2 , Color : green )
16 : Office Chair( Model : model3 , Color : green )
17 : Office Chair( Model : model4 , Color : green )
18 : Office Chair( Model : model5 , Color : green )
19 : Office Chair( Model : model6 , Color : green )
20 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
```

```
10 : Office Chair( Model : model4 , Color : blue )
11 : Office Chair( Model : model5 , Color : blue )
12 : Office Chair( Model : model6 , Color : blue )
13 : Office Chair( Model : model7 , Color : blue )
14 : Office Chair( Model : model1 , Color : green )
15 : Office Chair( Model : model2 , Color : green )
16 : Office Chair( Model : model3 , Color : green )
17 : Office Chair( Model : model4 , Color : green )
18 : Office Chair( Model : model5 , Color : green )
19 : Office Chair( Model : model6 , Color : green )
20 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:1
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
Please Enter Model Name: model2
1 : black
2 : red
3 : blue
4 : green
5 : pink
Please Enter Color Name: red
Remove Product

****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 2


Customers Registered In The System
1 : Customer ID: 2364880, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 8063708, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 8605323, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/?st, Customer's PhoneNumber: 05445649684
What is your email?
ozan@gmail.com
What is your password?
123
Office Chair( Model : model2 , Color : red )

****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
```

T15:

```
****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 5
1 : Office Chair( Model : model4 , Color : red )
2 : Office Chair( Model : model5 , Color : red )
3 : Office Chair( Model : model6 , Color : red )
4 : Office Chair( Model : model7 , Color : red )
5 : Office Chair( Model : model1 , Color : blue )
6 : Office Chair( Model : model2 , Color : blue )
7 : Office Chair( Model : model3 , Color : blue )
8 : Office Chair( Model : model4 , Color : blue )
9 : Office Chair( Model : model5 , Color : blue )
10 : Office Chair( Model : model6 , Color : blue )
11 : Office Chair( Model : model7 , Color : blue )
12 : Office Chair( Model : model1 , Color : green )
13 : Office Chair( Model : model2 , Color : green )
14 : Office Chair( Model : model3 , Color : green )
15 : Office Chair( Model : model4 , Color : green )
16 : Office Chair( Model : model5 , Color : green )
17 : Bookcase( Model : model3 , Color : black )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:4
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
8 : model8
9 : model9
10 : model10
11 : model11
12 : model12
Please Enter Model Name: model3
1 : black
Please Enter Color Name: black
Remove Product
```

```
****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 5
1 : Office Chair( Model : model4 , Color : red )
2 : Office Chair( Model : model5 , Color : red )
3 : Office Chair( Model : model6 , Color : red )
4 : Office Chair( Model : model7 , Color : red )
5 : Office Chair( Model : model1 , Color : blue )
6 : Office Chair( Model : model2 , Color : blue )
7 : Office Chair( Model : model3 , Color : blue )
8 : Office Chair( Model : model4 , Color : blue )
9 : Office Chair( Model : model5 , Color : blue )
10 : Office Chair( Model : model6 , Color : blue )
11 : Office Chair( Model : model7 , Color : blue )
12 : Office Chair( Model : model1 , Color : green )
13 : Office Chair( Model : model2 , Color : green )
14 : Office Chair( Model : model3 , Color : green )
15 : Office Chair( Model : model4 , Color : green )
16 : Office Chair( Model : model5 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:2
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
Please Enter Model Name: sad
1 : black
2 : red
3 : blue
4 : green
Please Enter Color Name: sad
Invalid Product
Admin informed
```

```
****WELCOME BRANCH EMPLOYEE MENU****
    ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: 5
1 : Office Chair( Model : model4 , Color : red )
2 : Office Chair( Model : model5 , Color : red )
3 : Office Chair( Model : model6 , Color : red )
4 : Office Chair( Model : model7 , Color : red )
5 : Office Chair( Model : model1 , Color : blue )
6 : Office Chair( Model : model2 , Color : blue )
7 : Office Chair( Model : model3 , Color : blue )
8 : Office Chair( Model : model4 , Color : blue )
9 : Office Chair( Model : model5 , Color : blue )
10 : Office Chair( Model : model6 , Color : blue )
11 : Office Chair( Model : model7 , Color : blue )
12 : Office Chair( Model : model1 , Color : green )
13 : Office Chair( Model : model2 , Color : green )
14 : Office Chair( Model : model3 , Color : green )
15 : Office Chair( Model : model4 , Color : green )
16 : Office Chair( Model : model5 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:5
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
8 : model8
9 : model9
10 : model10
Please Enter Model Name: model1
1 : black
2 : red
3 : blue
4 : green
Please Enter Color Name: red
Product is not Branch Stock
```

T16:

```
****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input: sad

Error: You entered an invalid input!


****WELCOME BRANCH EMPLOYEE MENU****
      ***SELECT THE OPERATION***
1 - Stock List
2 - Information of the previous orders of a customer
3 - Sell
4 - Add Product
5 - Remove Product
0 - Return to Main Menu
Enter input:
```

T17:

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 3


Customers Registered In The System
1 : Customer ID: 2364880, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 8063708, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 8605323, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/?st, Customer's PhoneNumber: 0544564968

****WELCOME CUSTOMER LOGIN SCREEN****
Are you registered in system?(Y(yes) or N(no)
dsa
Invalid choice
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input:
```

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 3

Customers Registered In The System
1 : Customer ID: 2676305, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: Usküdar/Istanbul, Customer's PhoneNumber: 05445649684
2 : Customer ID: 7490651, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: Ilkadim/Samsun, Customer's PhoneNumber: 05053215632

****WELCOME CUSTOMER LOGIN SCREEN****
Are you registered in system?(Y(yes) or N(no)
n
NEW MEMBER REGISTRATION
Enter Customer's name:
ozan
Enter Customer's surname:
geckin
Enter Customer's email:
ozan@gmail.com
Enter Customer's password:
123
Enter Customer's address:
uskudar/ist
Enter Customer's phone number:
05445649684
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 3

Customers Registered In The System
1 : Customer ID: 9951634, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 9965369, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 2088937, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/ist, Customer's PhoneNumber: 05445649684

****WELCOME CUSTOMER LOGIN SCREEN****
Are you registered in system?(Y(yes) or N(no)
|
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 3

Customers Registered In The System
1 : Customer ID: 9951634, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 9965369, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 2088937, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/ist, Customer's PhoneNumber: 05445649684

****WELCOME CUSTOMER LOGIN SCREEN****
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
sad
What is your password?
sad
NOT MEMBER IN THE SYSTEM
NEW MEMBER REGISTRATION
Enter Customer's name:
gtu
Enter Customer's surname:
gtu
Enter Customer's email:
gtu@gmail.com
Enter Customer's password:
gtu
Enter Customer's address:
gebze
Enter Customer's phone number:
1233244235

****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input:
```

```
****WELCOME COMPANY SYSYEM****
        ***USER TYPE***
1 - Administrator
2 - Branch Employee
3 - Customer
4 - Add an Admin
0 - Exit
Enter input: 3


Customers Registered In The System
1 : Customer ID: 9951634, Customer's Name: customer, Customer's Surname: customer, Customer's Email: customer@gmail.com, Customer's Password: 123, Customer's Address: , Customer's PhoneNumber:
2 : Customer ID: 9965369, Customer's Name: customer2, Customer's Surname: customer2, Customer's Email: customer2@gmail.com, Customer's Password: 321, Customer's Address: , Customer's PhoneNumber:
3 : Customer ID: 2088937, Customer's Name: ozan, Customer's Surname: geckin, Customer's Email: ozan@gmail.com, Customer's Password: 123, Customer's Address: uskudar/ist, Customer's PhoneNumber: 05445649684
4 : Customer ID: 4257822, Customer's Name: gtu, Customer's Surname: gtu, Customer's Email: gtu@gmail.com, Customer's Password: gtu, Customer's Address: gebze, Customer's PhoneNumber: 1233244235


****WELCOME CUSTOMER LOGIN SCREEN****
Are you registered in system?(Y(yes) or N(no)
y
What is your email?
ozan@gmail.com
What is your password?
123


****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input:
```

T18:

```
****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: sad

****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 2
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
```

T19:

```
****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 1
Branch List
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
  Choice Branch's name: dsa
Invalid Branch name
****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***|
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 1
```

```
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 1
Branch List
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:3
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
8 : model8
9 : model9
10 : model10
11 : model11
12 : model12
Please Enter Model Name: sda
1 : black
Please Enter Color Name: sda
Admin informed
Invalid Product
Unfortunately, the product you are looking for is out of our Branch1 branch.
```

```
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 1
Branch List
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:1
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
Please Enter Model Name: model1
1 : black
2 : red
3 : blue
4 : green
5 : pink
Please Enter Color Name: red
We have the product
Office Chair( Model : model1 , Color : red )
```

T20:

```
****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 4
Office Chair( Model : model1 , Color : red )

****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input:
```

```
Office Chair( Model : model1 , Color : red )

****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 4
THE CUSTOMER HAS NO OLD ORDERS
```

T22:

```
****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: sad

Error:You entered an invalid input!


****WELCOME COSTUMER MENU****
 ***SELECT THE OPERATION***
1 - Search Product
2 - Product List
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input:
```

T21:

```
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 3
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
WELCOME TO SYSTEM ozanold ordes
Noting Product
1 : Office Chair( Model : model1 , Color : red )
2 : Office Chair( Model : model2 , Color : red )
3 : Office Chair( Model : model3 , Color : red )
4 : Office Chair( Model : model4 , Color : red )
5 : Office Chair( Model : model5 , Color : red )
6 : Office Chair( Model : model6 , Color : red )
7 : Office Chair( Model : model7 , Color : red )
8 : Office Chair( Model : model1 , Color : blue )
9 : Office Chair( Model : model2 , Color : blue )
10 : Office Chair( Model : model3 , Color : blue )
11 : Office Chair( Model : model4 , Color : blue )
12 : Office Chair( Model : model5 , Color : blue )
13 : Office Chair( Model : model6 , Color : blue )
14 : Office Chair( Model : model7 , Color : blue )
15 : Office Chair( Model : model1 , Color : green )
16 : Office Chair( Model : model2 , Color : green )
17 : Office Chair( Model : model3 , Color : green )
18 : Office Chair( Model : model4 , Color : green )
19 : Office Chair( Model : model5 , Color : green )
20 : Office Chair( Model : model6 , Color : green )
21 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:1
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
Please Enter Model Name: model1
1 : black
2 : red
3 : blue
4 : green
5 : pink
Please Enter Color Name: red
Remove Product
```

```
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 3
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
WELCOME TO SYSTEM ozanold ordes
Office Chair( Model : model1 , Color : red )

1 : Office Chair( Model : model2 , Color : red )
2 : Office Chair( Model : model3 , Color : red )
3 : Office Chair( Model : model4 , Color : red )
4 : Office Chair( Model : model5 , Color : red )
5 : Office Chair( Model : model6 , Color : red )
6 : Office Chair( Model : model7 , Color : red )
7 : Office Chair( Model : model1 , Color : blue )
8 : Office Chair( Model : model2 , Color : blue )
9 : Office Chair( Model : model3 , Color : blue )
10 : Office Chair( Model : model4 , Color : blue )
11 : Office Chair( Model : model5 , Color : blue )
12 : Office Chair( Model : model6 , Color : blue )
13 : Office Chair( Model : model7 , Color : blue )
14 : Office Chair( Model : model1 , Color : green )
15 : Office Chair( Model : model2 , Color : green )
16 : Office Chair( Model : model3 , Color : green )
17 : Office Chair( Model : model4 , Color : green )
18 : Office Chair( Model : model5 , Color : green )
19 : Office Chair( Model : model6 , Color : green )
20 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:1
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
Please Enter Model Name: sad
1 : black
2 : red
3 : blue
4 : green
5 : pink
Please Enter Color Name: as
Admin informed
Invalid Product
```

```
3 - Purchase
4 - Information of the previous orders
0 - Return To Main Menu
Enter input: 3
Branches List:
1 : Branch1
2 : Branch2
3 : Branch3
4 : Branch4
 Choice Branch's name: Branch1
WELCOME TO SYSTEM ozanold ordes
Office Chair( Model : model1 , Color : red )

1 : Office Chair( Model : model2 , Color : red )
2 : Office Chair( Model : model3 , Color : red )
3 : Office Chair( Model : model4 , Color : red )
4 : Office Chair( Model : model5 , Color : red )
5 : Office Chair( Model : model6 , Color : red )
6 : Office Chair( Model : model7 , Color : red )
7 : Office Chair( Model : model1 , Color : blue )
8 : Office Chair( Model : model2 , Color : blue )
9 : Office Chair( Model : model3 , Color : blue )
10 : Office Chair( Model : model4 , Color : blue )
11 : Office Chair( Model : model5 , Color : blue )
12 : Office Chair( Model : model6 , Color : blue )
13 : Office Chair( Model : model7 , Color : blue )
14 : Office Chair( Model : model1 , Color : green )
15 : Office Chair( Model : model2 , Color : green )
16 : Office Chair( Model : model3 , Color : green )
17 : Office Chair( Model : model4 , Color : green )
18 : Office Chair( Model : model5 , Color : green )
19 : Office Chair( Model : model6 , Color : green )
20 : Office Chair( Model : model7 , Color : green )

Please Choice a Product
1 : Office Chair
2 : Office Desk
3 : Office Cabinet
4 : Bookcase
5 : Meeting Table
Product's counter:5
1 : model1
2 : model2
3 : model3
4 : model4
5 : model5
6 : model6
7 : model7
8 : model8
9 : model9
10 : model10
Please Enter Model Name: model1
1 : black
2 : red
3 : blue
4 : green
Please Enter Color Name: red
Unfortunetly,The product is not in stock
```