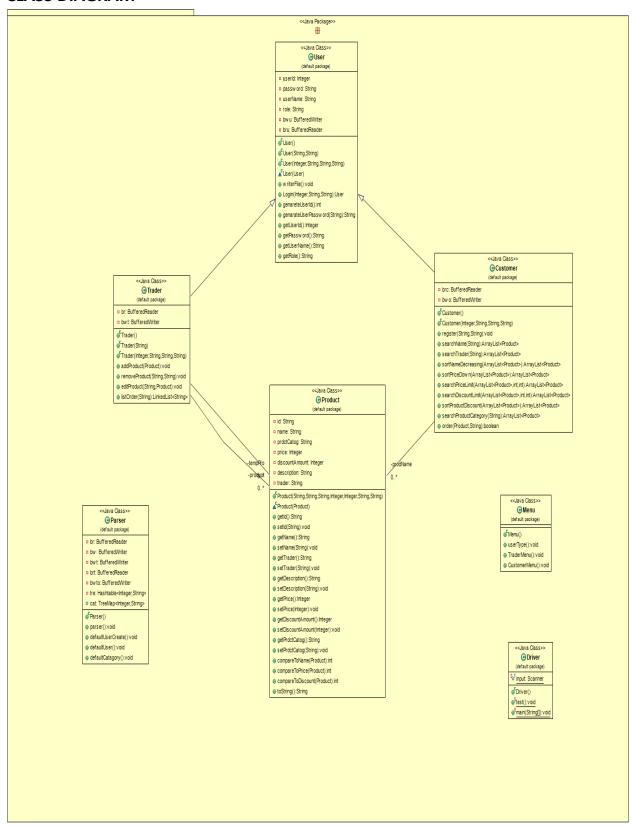
GTU DEPARTMENT OF COMPUTER ENGINEERING CSE 222/505 – Spring 2021 Homework 6

REPORT

OZAN GEÇKİN 1801042103

1. CLASS DIAGRAM



2. 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
- **2.1) Specify the problem requirements:** I understand the problem.
- 2.2) Analyze the problem: I identify; input data, output data, Additional requirements and constraints
- **2.3)** Design an algorithm and program: My solution approach is completely based on OOP. I divide the problem into sub-problems. I listed major steps (subproblems). 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

3.4) Implement the algorithm:

I have to make a shopping site in my project. I kept the data in order.txt, product.txt, user.txt files. I read and pars the file in csv format you provided. And I created and assigned files that I was going to need and saw fit. I set the data directly to the Product.txt file. I assigned id, password with my generic methods to the trader names in the csv formatted file you provided, and saved them to the User.txt file. In order to do certain operations, I pulled the data from these database source files and put them in some data structures. These are ArrayList, LinkList, TreeMap, HashTable and Queue. While using data structures, I chose them according to my needs. In order not to tire the memo, did I usually read the data from the database and search it? I avoided using static arrays.

User.java:

I have defined and implemented the common methods and data fields of the user types I use in the system in this class.

Customer.java:

In this class, I added data fields and methods to meet the needs of the customers in the system, and I used bubble sort, selection sort algorithms for the filters here. I kept the productions of the customer in the Array List. Here, too, I used my databases to avoid memory. My reason for keeping customerin products in the Array List was to be able to access them at constant time with the get method. It was very useful for me in sorting algorithms.

Trader.java:

In this class, I added data fields and methods to meet the needs of the vendors in the system. While performing transactions on Trader's products, I used LinkedList when performing transactions on ArrayList orders.

Parse.java:

In this class, I initially used it to parse the source codes. Here I extracted the product categories using the Tree structure. Using HashTable I kept the users in the csv file. I used it to export to user.txt file.

Product.java:

This class is the class where information and methods about products are kept.

Menu.java:

There are menu functions in this class, which helped my program work interactively. I have kept the menu structure in one place.

Driver.java:

The test method is a driver method in the class I do the tests of the program. It allows me to test many methods in the program. The Main method, on the other hand, enables the program to work interactively.

Not: User IDs occur as generic and unique. Therefore, you can access my program by accessing these codes from the user.txt file. Example file path "data / e-commerce-samples.csv" So there is a data file next to the src code and there must be a csv file for it.

3.Test Case

Test Id	Test Cases	Test Steps	Expected	Actual Results	Pass/Fail
			Result		
T1	parser	Call method	Create	As expected	Pass
			product.txt		
T2	defaultUserCreate	Call method	Create user.txt	As expected	Pass
T3	defaultCatagory	Call method	Parse category	As expected	Pass
T4	addProduct	Call method	Adding new	As expected	Pass
		with parameter	product		
		New Product			
T5	removeProduct	Call method	Removing	As expected	Pass
		with parameter	product		
		Product			
T6	editProduct	Call method	Change	As expected	Pass
		with parameter	product		
		New Product			
T7	listOrder	Call method	List order	As expected	Pass
		with parameter			
		Trader name			

Т8	searchName	Call method with parameter Product name	Return Product list by product name	As expected	Pass
Т9	sortNameDecreasing	Call method with parameter Product name	Sort product by name	As expected	Pass
T10	searchTrader	Call method with parameter Trader name	Return Product list by trader name	As expected	Pass
T11	sortPriceDown	Call method with parameter Product name	Sort product by price	As expected	Pass
T12	searchPriceLimit	Call method with parameter Product name,Upper and down limit	Search product by price(Upper and down)	As expected	Pass
T13	searchDiscountLimit	Call method with parameter Product name,Upper and down limit	Search product by discount (Upper and down)	As expected	Pass
T14	sortProductDiscount	Call method with parameter Product name	Sort product by product name	As expected	Pass
T15	searchProductCategory	Call method with parameter category name	Search product by catagory	As expected	Pass
T16	order	Call method with parameter new product, trader name	Remove product in product.txt and adding order.txt	As expected	Pass
T17	Customer Login	Call Method with parameter user id, password, role	Show Customer menu	As expected	Pass
T18	Trader Login	Call Method with parameter user id, password, role	Show Trader menu	As expected	Pass
T19	Customer Register	Call Method with parameter user name and password	Succes register	As expected	Pass

4. Running commond and Result

Test method result:

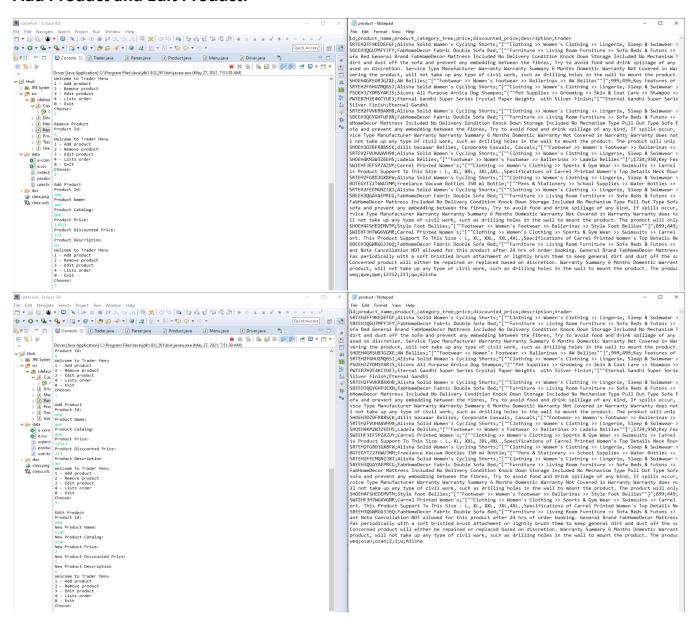
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Research product by Product Name and Product Description

Product ID: SRTEH2FF9KEDEF6F Product Name: Alisha Solid Women's Cycling Shorts Product Catalog: "[
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Trader Login and add Product and remove Product:



Add Product and Edit Product:



Customer Register:

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Welcome to Shopping Site
Choose User
1 - Trader
2 - Customer
3 - Register Customer
0 - Exit
Choose:
Welcome To Customer Register
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Welcome to Shopping Site
Choose User
1 - Trader
2 - Customer
3 - Register Customer
0 - Fxit
Choose:
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25970968;Freelance;Freela;trader
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Customer method check:

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Search product by decreasing order of the product name
Enter Product Name:
                Enter product Name:

Alisha
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                                  - Exit
   Choose:
        ,
Search product by Product of the discount (Upper-Down by Customer input)
   Enter Product Name:
   Enter Product Upper Limit:
   Froduct ID: weg Product Name: ozan Product Catalog: ozan Product Price: 2 Product Discount Amount: 1 Product Description: w Product Trader: Alisha
    Welcome to Customer Menu
Welcome to Customer Menu

1 - Search product by Product Name and Product Description

2 - Search product by Trader name

3 - Search product by Product prices (Upper-Down)

5 - Search product by Product prices (Upper-Down)

5 - Search product by Product prices (Upper-Down)

6 - Search product by Product prices (Upper-Down by Customer input))

7 - Search product by Product of the discount (Upper-Down by Customer input)

8 - Search product by Product Category

9 - Product Order

1 - Evit
    0 - Exit
   Choose:
   Search product by Product category
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