

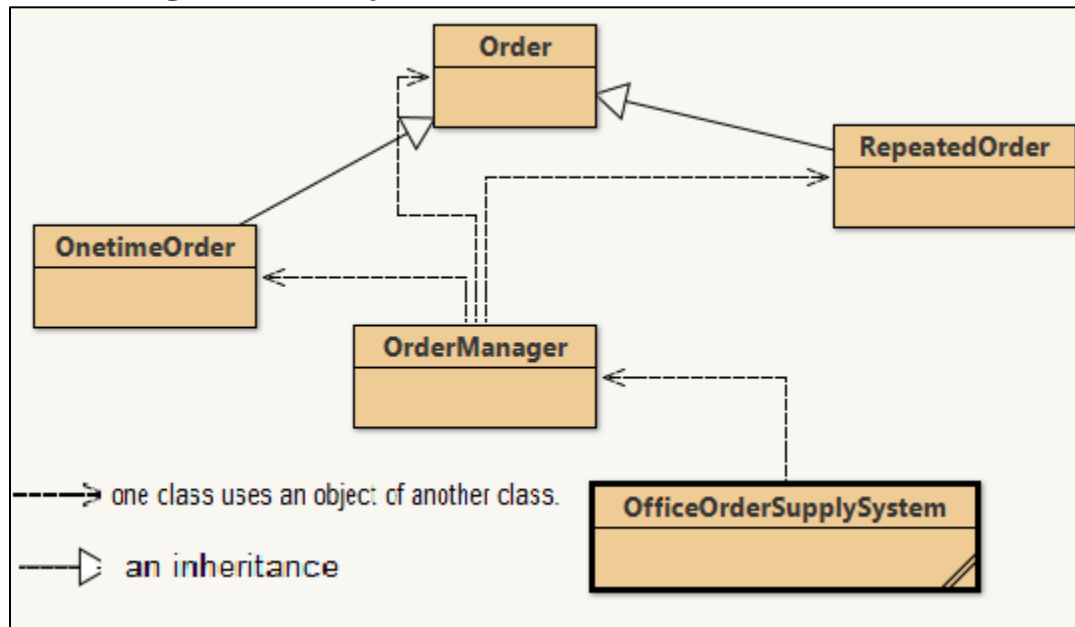
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CS 116 Spring 2020 Final Project Design

Classes made:-

- Class name:
 - Order.java (Super class)
 - Purpose: This is the parent class which contains the basic variables like the order type, customer name, product type, date of purchase and quantity of amount.
 - OnetimeOrder.java
 - Purpose: A class inherits all the variables from Order.java. Mainly used for OrderManager to sort the data of the file.
 - RepeatedOrder.java
 - Purpose: A class inheriting all the variables from Order.java along with three variables which are order quantity of second purchase, days of interval between the first and end order dates, and finally the end date of the order.
 - OrderManager.java (Interference class)
 - Purpose: The interface class which sorts the data of the given file to the order type and can delete data from the list.
 - OfficeOrderSupplySystem.java (Testing class)
 - Purpose: The main user class which takes the data from the user such name of the file and if the user wants delete data from the list.
- The main aim of this project is to read a office.txt file which contains the data from the file and sort it out in accordance to the following parameters:
 - customerIDs comes from the current NYSE Company companylist.txt
 - productIDs are all a single capital letter followed by a single numeric digit
 - orderDates are all in 2019
 - orderAmounts are all integers less than 150
 - repeatedOrderPeriods are all 1 to 30 days
 - repeatedOrderEndDates all in 2019
- The File must have a maximum of 7 columns(if the list is of repeated order) or 5 columns(if the list is of one-time order). The given example file didn't follow the following rules.

Basic design of the Project:

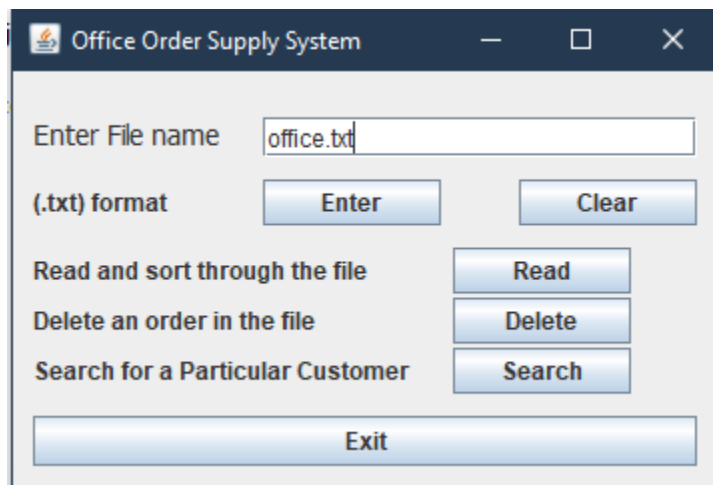


Since GUI was an option. I have added that feature as well. Well not completely GUI, both the GUI and the Console is used in order for the code to run without any errors.

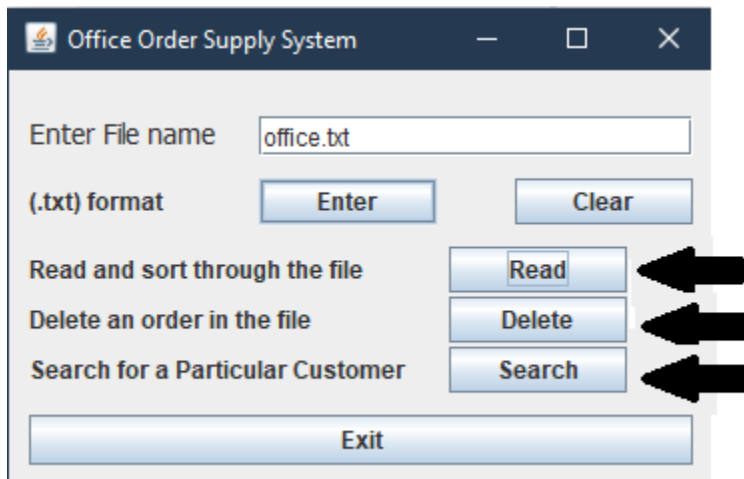
The GUI output:

The file name must be typed and clicking Enter button registers the field.

Clear button resets the textbox.



Click each of the following buttons will send you to the Console.



Office Order Supply System

Enter File name

(.txt) format

Read and sort through the file ←

Delete an order in the file ←

Search for a Particular Customer ←

List of Orders:-

Order Type: 1
Customer Name: Orange Inc .
Product: A1
Date: Fri Jun 25 00:00:00 EDT 2004
Order Quantity: 5

Order Type: 2
Customer Name: Macrohard Inc .
Product: C2
Date: Mon Aug 02 00:00:00 EDT 2004
Order Quantity: 1

Order Type: 3
Customer Name: Peak Enterprises
Product: A2
Date: Sat Nov 18 00:00:00 EST 2006
Order Quantity: 10
Second Order Quantity: 7
Interval between orders: 33
End Date: Thu Dec 21 00:00:00 EST 2006

For Delete and Search, user input is required in the Console to complete the following task.

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/-----/
Enter the customer you want to search:-Peak Enterprises
Orders done by Peak Enterprises

/-----/
Enter the order you want to delete:-1
Order list after deletion of OrderID 1

Order Type: 2
Customer Name: Macrohard Inc .
Product: C2
Date: Mon Aug 02 00:00:00 EDT 2004
Order Quantity: 1

Order Type: 3
Customer Name: Peak Enterprises
Product: A2
Date: Sat Nov 18 00:00:00 EST 2006
Order Quantity: 10
Second Order Quantity: 7
Interval between orders: 33
End Date: Thu Dec 21 00:00:00 EST 2006

Order Type: 6
Customer Name: Peak Enterprises
Product: C3
Date: Sat Nov 04 00:00:00 EST 2006
Order Quantity: 5
Second Order Quantity: 7
Interval between orders: 54
End Date: Thu Dec 28 00:00:00 EST 2006
```

Clicking the Exit button will prompt a confirmation tab and you can exit the program.

