Online Store

Workbook 3's Workshop

Project Description

You will build a simple command line Online Store application. The application will have a CLI user interface that is the store front for users to shop at your store.

Data Files

Products.csv

```
SKU|Product Name|Price|Department
AV1051|JBL Bluetooth Speaker|89.95|Audio Video
AV1312|Mini 1000 Lumens Projector|149.95|Audio Video
GM1148|Retro Handheld Arcade|24.45|Games
PW1001|Solar Powered Battery Charger|19.99|Electronics
...
```

Requirements

- Use the provided products.csv file to load the store's product inventory into your application.
- Create a Product class that stores all of the properties defined in the csy file
- Customers should be able to view all products
 - o They should also be able to search by Product Name, Price or Department
- Customers should be able to add products to their cart
- Customers should be able to remove products from their cart

Screens

- **The Store Home Screen** The home screen should display a list of options that a user can choose from.
 - Display Products
 - o Display Cart
 - Exit closes out of the application
- **Display Products** Displays a list of products that your store sells.
 - o On this screen the customer should be able to
 - Search or filter the list of products
 - Add a product to their cart
 - Go Back to the home page
- **Display Cart** This displays a list of line items that are in the customer's cart. It should also display the total sales amount of the cart.
 - o The customer should be able to:
 - Check Out
 - Remove Product from the cart
 - Go Back to the home screen
 - If the customer chooses to remove a product need to prompt them for the product to remove

BONUS (optional)

- **Check Out** Here you should display the total sales amount owed for this order and prompt the user for payment.
 - Assume that the user will pay in cash
 - When the customer enters their payment amount, verify that the amount is sufficient to cover the cost of the cart
 - If the customer added enough money for the sale,
 - calculate the change that is owed to the customer and display the calculated change
 - print a sales receipt to the screen
 - o Order Date
 - o All Line items
 - o Sales Total
 - Amount Paid
 - o Change Given
 - clear the shopping cart
 - Return to the home screen
- When a customer adds multiple items to a cart
 - Instead of showing the item multiple times, your cart should only display each item once, but display the quantity for each item
- Create Sales Receipt File
 - After checkout, in addition to displaying the sales receipt to the screen, create a file with the sale information
 - Save the file in a Receipts folder
 - The file name should be the date and time stamp of the sale
 - 202303151148.txt
 - All of the information printed to the screen should be saved to the file

What Makes a Good Workshop Project?

• You should:

- Have a clean and intuitive user interface (give the user clear instructions on each screen)
- Implement the ability for a customer to add/remove items to a cart and also to purchase the items in the cart

• You should adhere to best practices such as:

- Create a Java Project that follows the Maven folder structure
- Create appropriate Java packages and classes
- Class names should be meaningful and follow proper naming conventions (PascalCase)
- Use good variable naming conventions (camelCasing, meaningful variable names)
- Your code should be properly formatted easy to understand
- use Java comments effectively

• Make sure that:

Your code is free of errors and that it compiles and runs

• The GitHub Repo for your project should be public

- Include a README.md file that describes your project and includes screen shots of
 - * your home screen
 - * your products display screen
 - * one calculator page that shows erroneous inputs and an error message.
- ALSO make sure to include one interesting piece of code and a description of WHY it is interesting.