Java Project

Cero’s Online Shopping Hub

CIS – 18a

Name: Paul Thai

2/10/2020

**Introduction:**

Hello, Welcome to Cero’s online shopping hub where we help you compare prices with different stores such as Costco, Walmart, Vons, and Whole Foods to give you, our customers, the best product at the best price! Our program is very simple and easy to use. There is no need to sign up or register your email! Just create your username and password at the login page and you are eligible to access the unlimited potential that this program provides. We also provide free shipping so you can solely focus on the task of shopping for all your needs. In addition, everything that you buy is tax-free because we, at Cero’s online shopping hub, believe that you shouldn’t be taxed for the items that you buy! Well, let’s get Shopping!

**Explanation:**

Here, at Cero, the goal is to create a simple program that will enable the user to input what they want to buy, checkout quickly, and have their items delivered to them without the hassle of having to going to the store to pick their items up. When the user boots up the program, it will prompt the user to input their username and password which can be created on the spot. The program will authenticate it and will then allow the user to input their name, address, and a 4-digit pin of their choice. After confirming that all the information is correct, the user will be prompted with a question to ensure if their information is correct. After agreeing that the information is correct, the user is able to enter the number of items that they want to buy. This will trigger a loop that will ask the user to input their desired item. Then it will search and display the prices of the same product at different stores and have the user enter specific commands to choose from the stores. This will repeat until the user has inputted all the items that they wanted and at the end, it will calculate the total amount the user spent and will prompt the user if they are ready to check out. If the user successfully checks out, it will display a message indicating the time it will take for the package to return to them and it bid them farewell. If the user is unsuccessful checking out, then it will display a message for the user to contact customer support if they have any questions, comments or concerns they would like addressed.

**Company name:**

* Cero

**Pseudo Code:**

**Code is running-**

**Displays greeting**

-prompts user to enter username

-prompts user to enter password

(Display username and password to the user to check and confirm)

**Input**

-prompt user to enter their name, address, and four digits of their pin

-if there are less or more than 4 digits inputted, program will loop

(Displays name, address, and 4-digit pin for the user to check and confirm)

**Shopping**

-asks the user the number of items they are buying today

-prompts the user to input what they are looking for

(Display the product at different stores and their prices)

-user is given four options and is prompted to pick

-if the input is invalid, program terminates

(Displays the total that the user has spent)

(Loops until the user has finished inputting all their items)

-asks the user if they are finished shopping or if they want to continue

-if done, program will continue, if not, program will continue looping

**Checking out**

(Displays the total amount that is inside of the user’s cart)

-asks the user if they want to check out

-if user agrees, display message of confirmation

-if user disagrees, display message to contact customer support

**Check-off list: (This will contain some but not all)**

|  |  |
| --- | --- |
| Check off list | |
| Comments | //create the package (ln 1) |
| Data types | String name; (ln 18) |
| Variables | int numItems; (ln 53) |
| Switch Statements | switch(choice) {…} (ln 168) |
| Loops | while (b > 4 || b < 4) {…} (ln 94) |
| Operators | if(choose =='Y' || choose =='y') {…}  (ln 113) |
| Class | class Mail {…} ln(43) |
| Objects and Methods | Data mail = new Data(); ln(47) |
| Arrays | String items[] = new String[mail.number];  (ln 133) |
| Private and Public | public class Info {…} Info.java (ln3) |
| Inheritance | class Data extends Info {…} (ln 35) |
| Package | package ship; (ln 2) |
| Implement Interface | interface Value{…} (ln 12) |

A screenshot of a cell phone

Description automatically generated**Example of Working code:**