**Homework 4**

***AWS Hirens Online Shopping Cart Application***

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**User Guide**

This program provides a simple interface that is command-line driven. It lets a user search, add, and remove items in an online shopping cart. I decided to do this project because the trend of online shopping has increased dramatically. The program carries of list of household items which uses logic to let the user add the items to the online cart. When the user is done shopping they can check out all the items in their cart and once they do, it will write those items in a text file in Amazon S3. The user has an option to also empty cart and remove all items in the s3 text file.

**At Program Start up:**

When the program launches for the first time, there is logic to create a DynamoDB database table which will be populated with the household items that can be checked out and bought. If the table currently exists and items are present as records, there will be no errors and the application runs successfully.

**Application Launch Screen:**

Text

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Figure . Launch screen shown form Cloud9 terminal.

If the user chooses option ‘a’ to view the shopping shopcart, then they will see a display of the current shopping cart. At first, it will be empty because the user has not searched for an item and put it in their shopcart yet. If there are items in the shopcart the program will ask the user if they would like to check out. It will then proceed to write the items and content of the item into a .txt file named 'shop-cart-hw4.txt' that is located under the s3 bucket named 'shopping-cart-hw4'.

Text

Description automatically generated

Figure . Showing cloud9 terminal output of option 'a' and empty space representing empty cart.

Text

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Figure . Showing when item 'scarf' is in the cart and program asking user to check out.

Graphical user interface, text

Description automatically generated

Figure . Showing if the user selects ‘y’ for check out, then it checks the item out and write its to s3 file. (see next screenshot)

Graphical user interface, text, application

Description automatically generated

Figure . Showing s3 file in Amazon s3 Console.

If the user chooses the option ‘e’, then presses ‘enter’, the program will remove all contents from the s3 file.

Text

Description automatically generated

Figure . Showing how to empty shopping cart by chossing option ‘e’.

**Verify that it was deleted on S3**

Graphical user interface, text, application

Description automatically generated

Figure . Showing the shop-cart-hw4 .txt file all files items removed after choosing option ‘e’.

If the user chooses option ‘c’ for searching an item by the ProductID, they can enter the ProductID number and can associate the product that way and hitting enter will add it to the view cart.

Graphical user interface, text

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Figure . Showing user choosing option 'c' and selecting yes to add to shopcart

If they choose option ‘b’ the user can search the product by the ProductName. This is already hardcoded into the list. (see screnshot below)

Text

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Figure . Showing the option 'b' chosen and searching for product by its name.

Hence, if the user chooses option ‘d’, they can browse by the Category. (see screenshot below). The menu will show all the available items related to the category of their choice. In addition, they can add items to their cart by choosing ProductID number.

Text

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Figure . Showing user choosing option 'd' and interface showing items by cateogry ‘Electronics’.

If the user chooces to ‘Add item to shopcart’ by pressing ‘y’ and then ‘enter’ key, they will be prompted to choose and enter the ProductID.

A picture containing text

Description automatically generated

Figure . Showing user entering ProductID number to add to shopcart.

If the user chooses to put an incorrect input then the program asks the user to re-enter. In this case, the program asks the user if they want to add an item to the cart. If the user enters ‘dddfdfd’ then the program will let the user know of the invalid input.

Text

Description automatically generated with low confidence

Figure . Showing invalid input results from cloud9 Terminal.

If the user chooses option ‘f’ the program will exit.

Text

Description automatically generated

Figure . Showing exiting program.