CS132 – Computer Science II

Spring 2019

Mr. MacKay

Project 1

**General Description:** For this project, you will write a program that keeps track of inventory for a camera store. The data is located in the file *Inventory*.*txt*. (NOTE: this is NOT the same data file that was used for the lab, although it is similar) While the program is running, the information should be stored in a *linked list.*

1. The information for each item will be stored in a struct
   1. The definition will be in a separate file called item.h
2. The total inventory will be stored in a linked list
   1. The definition of the list class will be in a file called linkedList.h
3. The program should be able to perform the following functions
   1. Display the inventory **in** **alphabetical order** by name
   2. Display the inventory **in reverse alphabetical** order
   3. Add an item to the inventory
   4. Delete an item from inventory
   5. Change any info for an item
      1. Which means you have to be able to search for a particular item
4. The program will run until the user chooses an option to exit
5. The list is not in alphabetical order, so you will need to put it in order.
6. Whenever you change a name or if you add an item, the list must stay in order.
7. When you are done, the list will be output to a file called *newlist.txt*
8. You MAY use any code that I have given you, although it will need to be modified.
9. You **must** have internal and external documentation:

See the handout on Documentation Standards

1. **You will demonstrate your working project to me at an appointed time**
2. You will **hand in** a copy of all your files, along with the documentation