Project 1 Outline

Notes:

* Store name: Nile Dot Com
* The program will allow users to
  + Place in stock items into a shopping cart
  + Total all costs (tax included)
  + Produce an invoice
  + Append a transaction log file
* My program MUST do the following:
  + Create a main GUI with these components
    - An area where the user can input data into the application along with the descriptive text that describes each input area (blanks to be filled in and what they are)
    - An area that shows the current contents of the shopping cart
    - 6 buttons as shown below with functionality as described below. The various input fields and buttons on the interface are only accessible at certain points during a user’s interaction with the e-store
  + An input file named “inventory.csv”
    - This is a comma separated file containing the data that will be read by the application when the user makes a selection
    - Each line in the file contains 5 entries:
      * Item ID (STRING)
      * Quoted string containing item description (STRING)
      * In-stock status (STRING)
      * Quantity on hand (INTEGER)
      * Unit price for one item (DOUBLE)
    - (example is on webcourses)
  + An output file (append only) named “transactions.csv”
    - It should uniquely identify and log each user transaction with the e-store
    - The unique transaction id will be generated as a permutation of the date/time string when the transaction occurred
    - Append only means once the data is down, it can’t be modified
* **Restrictions**:
  + The source file will begin with the following comment

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* + Assume the shopping cart can hold 5 separate items at once, don’t worry about handling more than 5 separate items/transactions
  + Assume our clients know the sequence of events that need to occur. This will hopefully reduce the amount of error handling needed to happen
  + Assume the tax rate is 6%. Discount rates as shown below on page X
* Input Specification:
  + “inventory.csv” is our only input file, as described above (and shown below)
* Output Specification
  + Output is to appear on the GUI and other message boxes that will appear in the program
  + “transactions.csv” log file must also be generated
* **DELIVERABLES**:
  + All of these must be submitted to webcourses:

1. A working copy of the source code (all java files) and any necessary supporting libraries
2. Include a file that contains (AT LEAST) the following nine SCREENSHOTS (highlight GREEN once gotten)
   1. Initial GUI instance (like 2 in example)
   2. GUI after the user enters an item number (ID) and quantity and clicked the “Find Item #” button (like 4 in example)
   3. GUI after the user added an item from screenshot (b) above but before searching for the next item ( like 7/9 in example)
   4. GUI after user has searched for the next item after the one in (b) above was added to cart, but before adding the new item to the cart (like 8 in example)
   5. GUI and the message dialogue box when the user clicks “View Current Order” button with multiple items (AT LEAST TWO) in the order (like 10 in example)
   6. The message dialogue box when the user clicks the “Check Out” button for an order containing multiple items (like 11 in example)
   7. GUI and message dialogue box when user has entered an item number (ID) and quantity where quantity is greater than the number in stock (like 16 in example)
   8. GUI and message dialogue box when the item the user has selected is out of stock (like 13 in example)
   9. GUI and message dialogue box when the item the user has selected is not contained in inventory file (like 16 in example)
      1. **MORE SCREENSHOTS CAN BE ADDED FOR CLARITY ON TOP OF THESE**
      2. **(LABEL SCREENSHOTS!)**
3. Include “transactions.csv” file as it stands after several different transactions have been recorded
   1. You should have at least 5 different transactions in the file spanning a time period of at least **TWO HOURS** with at least **THREE** of these transactions having **FOUR** or **FIVE** items **PER TRANSACTION**

Schedule

1/17 – TODAY

Write out the notes and create a schedule/plan for the project

1/18 – Thursday - GUI

Watch the YouTube tutorials and refresh on Java, learn how to make GUI

1/19 – Friday - GUI

Start developing the code for the GUI, basic code for rest of program such as buttons, boxes, etc.

1/20 – Saturday - GUI

Fine tune and finish the GUI, make sure the program can run and there are no issues. Know where everything is being saved in the computer, start working on logic or input

1/21 – Sunday - INPUT

Work on main body of code, start looking into how to read in the CSV file

1/22 – Monday – INPUT

Look into how to transfer the data from the CSV file and make it useable

1/23 – Tuesday – LOGIC

Determine the logic needed to calculate and run the program, this will likely be the bulk of the project

1/24 – Wednesday – LOGIC

Finish working on the logic of the program, make sure there it can add items to cart based on amount and calculate price WITH tax applied

1/25 – Thursday – LOGIC

Test the program, handle any errors, finish what was not completed yesterday

1/26 – Friday – OUTPUT

Work on the file output aspect of the project, print the strings/arrays and put them in a CSV file

1/27 – Saturday – OUTPUT

Make sure there are not errors with the file, also make the file AS REQUESTED WITH TIME STAMPS BEING APART

1/28 – Sunday – FINISH

Make sure project is ready to submit, take screenshots, submit the CSV file, and submit the whole project **(LABEL SCREENSHOTS!)**