

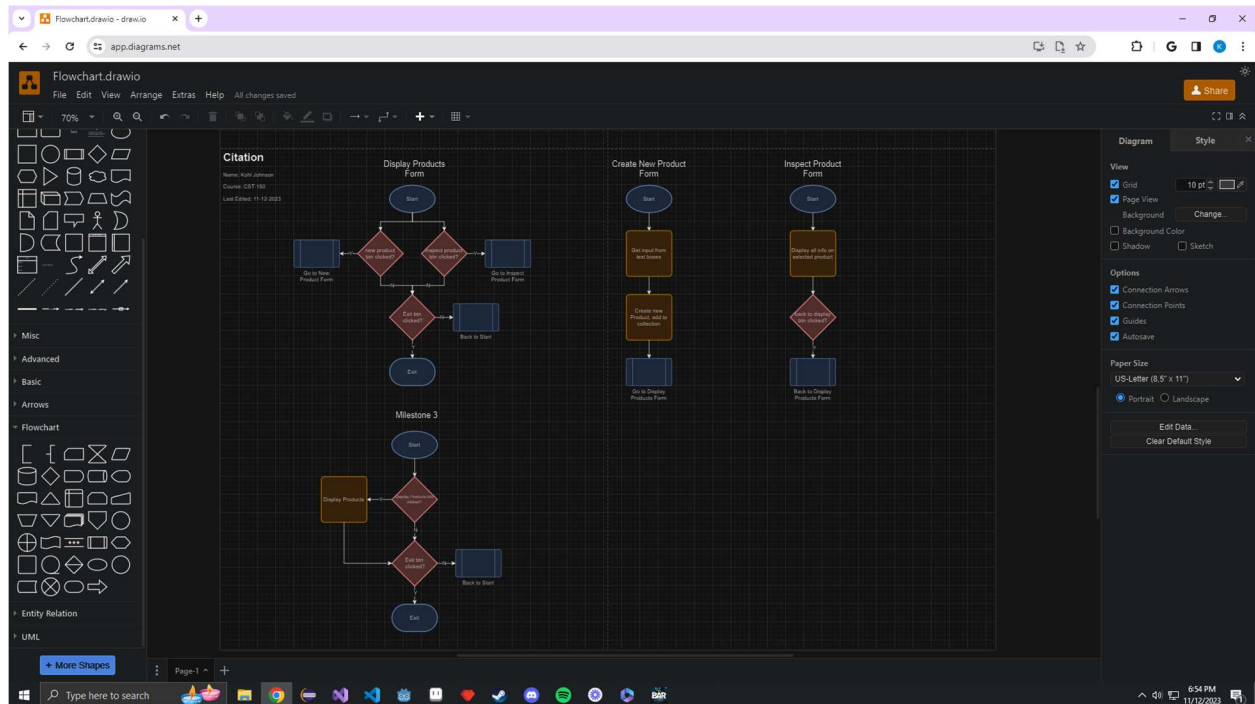
Kohl Johnson

11-18-2023

Milestone 4

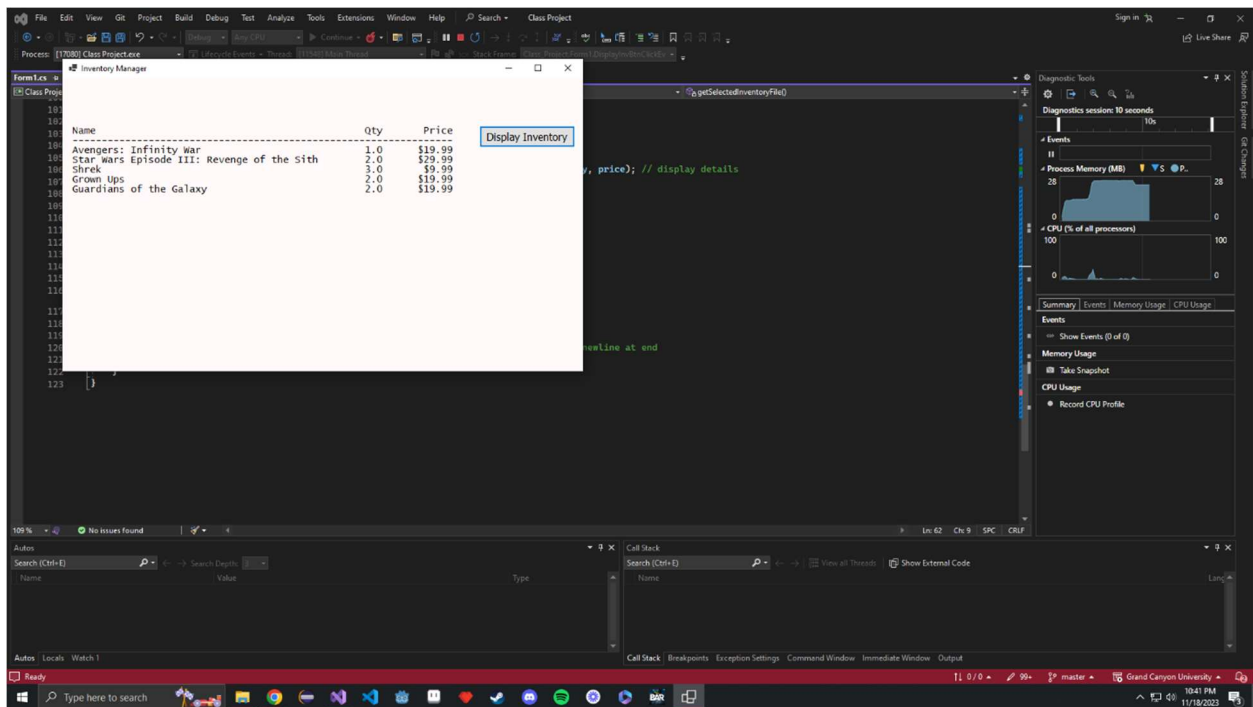
Loom Video Link: <https://www.loom.com/share/c9d249b3a58a48d6bfe42ebca379fe50?sid=0298190e-4a88-4b5d-95ff-04611f92ee38>

Flowchart Screenshot



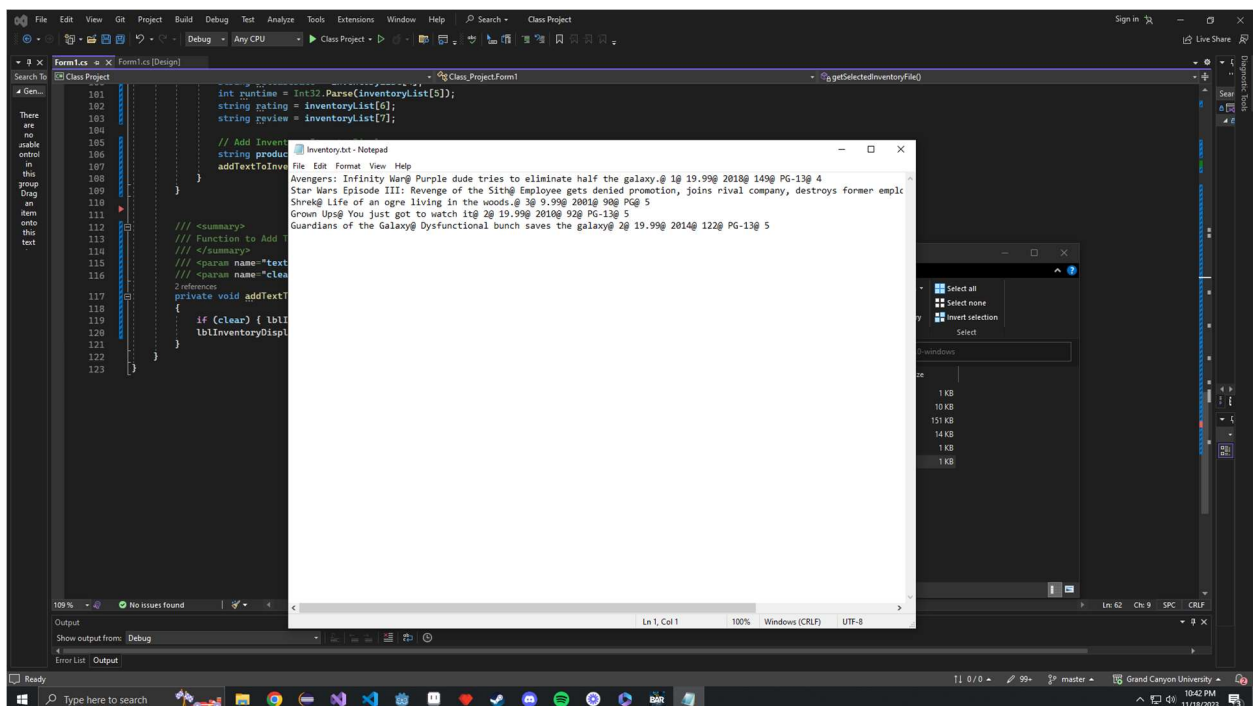
Sticking with the flowchart for Milestone 3. Nothing changed with the overall flow, the only difference is that the code is not in the same spot but moved into separate, more specialized functions.

Form Screenshot



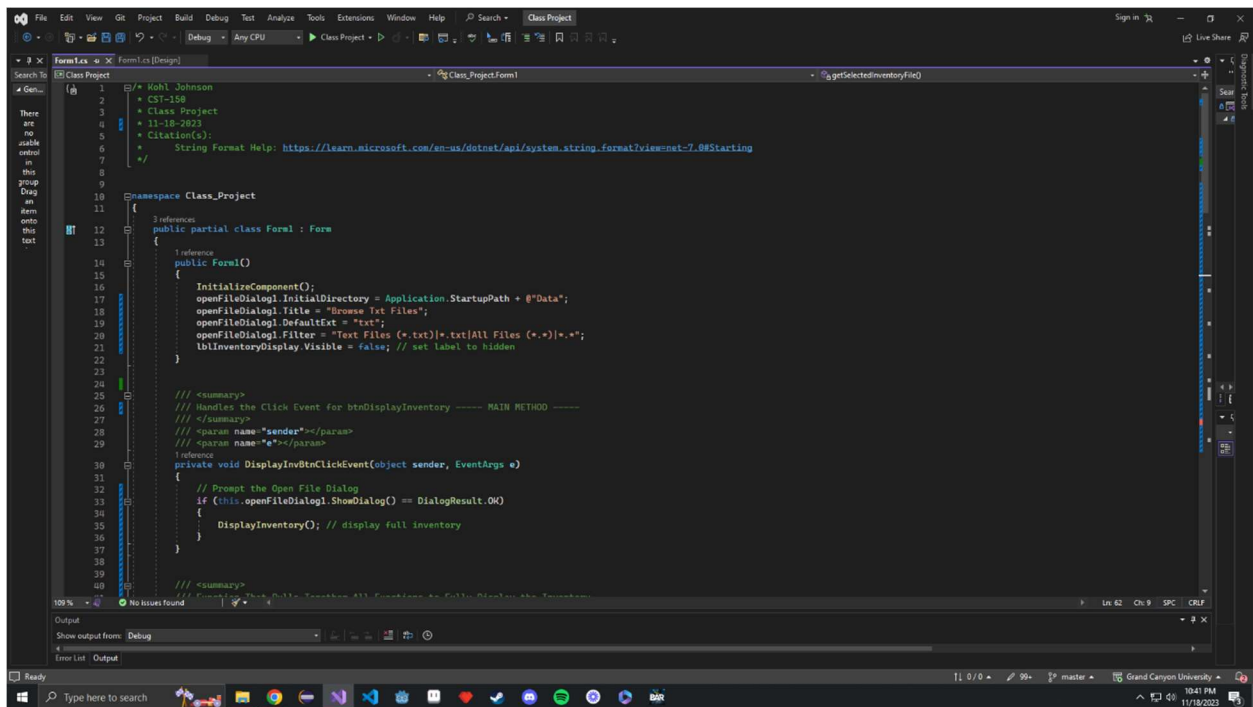
Shows the form (post button click). Has the header, header column titles, correct formatting, and displays the data that will be shown on the Display Products page/form.

Original Inventory Text File



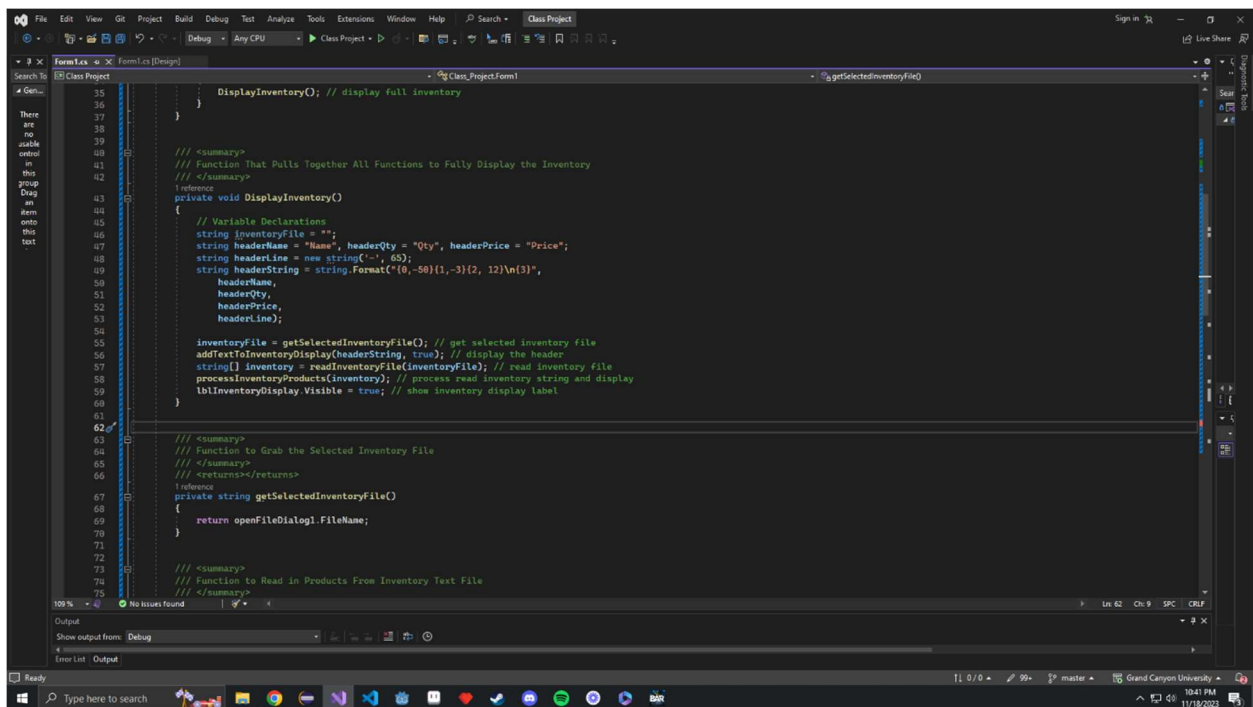
Barely readable, but has each attribute separated with "@" and each product on a new line.

Code Screenshot 1



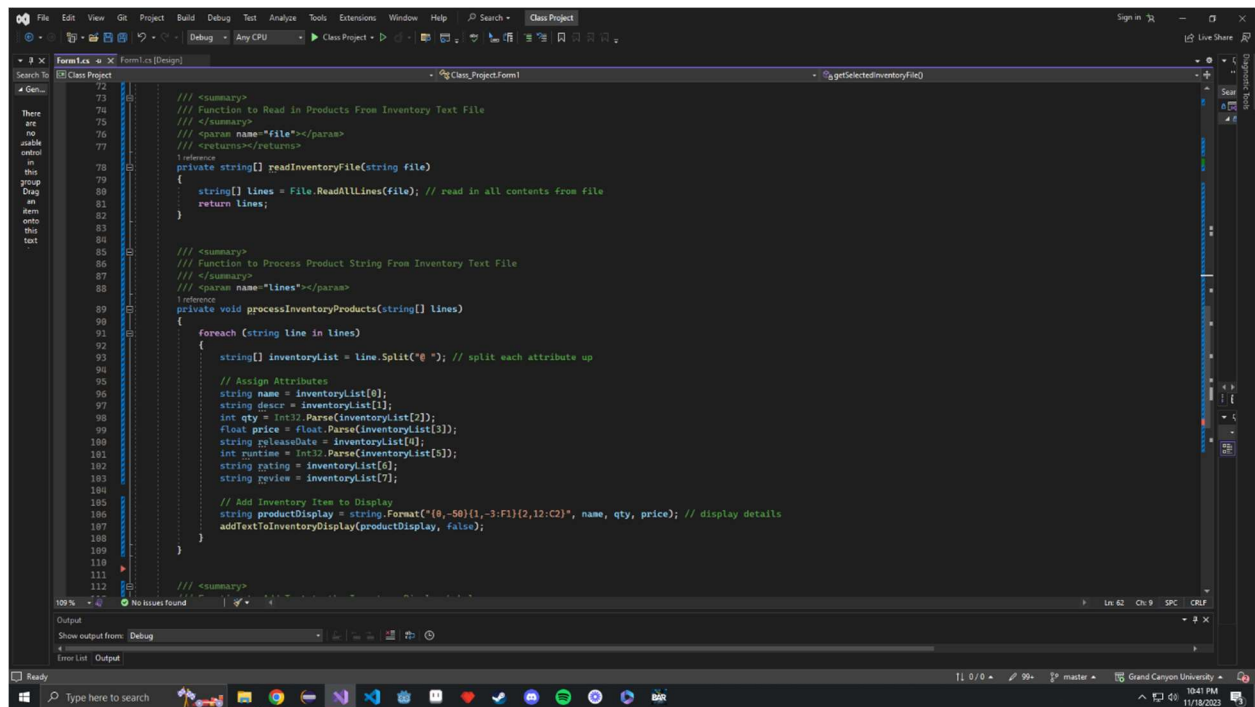
Shows the citation and the button click event with the single function call to DisplayInventory().

Code Screenshot 2



Shows the DisplayInventory() and GetSelectedInventoryFile() functions. The former is used to combine all the functions into one easy "call", the latter is used to grab the selected file's name.

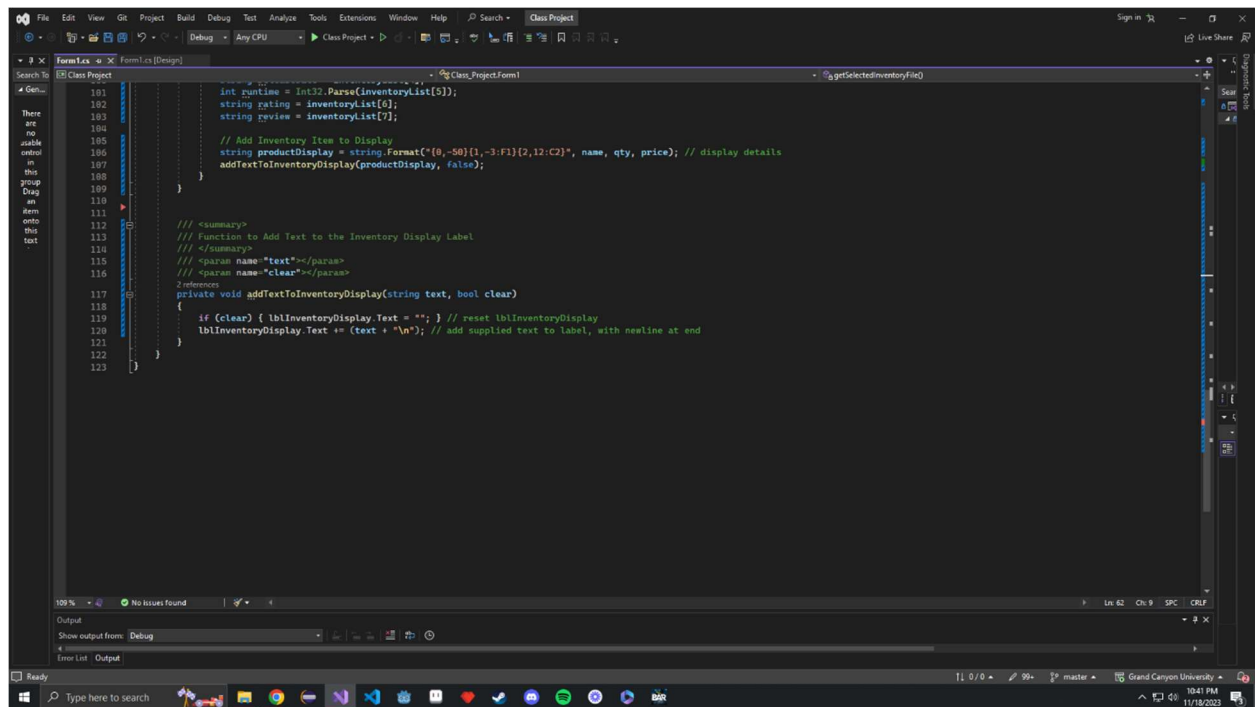
Code Screenshot 3



The screenshot shows the Visual Studio Code editor with a C# file named `Form1.cs` open. The code is in the `Class Project` workspace. The editor displays two methods: `readInventoryFile` and `processInventoryProducts`. The `readInventoryFile` method reads a file into a string array. The `processInventoryProducts` method iterates over the array, splits each line into attributes, and calls `addTextToInventoryDisplay` to update the UI. The code is as follows:

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Code Screenshot 4



```
191 // ...
192 int runtime = int32.Parse(inventoryList[5]);
193 string rating = inventoryList[6];
194 string review = inventoryList[7];
195
196 // Add Inventory Item to Display
197 string productDisplay = string.Format("{0,-50}{1,-3:F1}{2,12:C2}", name, qty, price); // display details
198 addTextToInventoryDisplay(productDisplay, false);
199
200 }
201
202 /// <summary>
203 /// Function to Add Text to the Inventory Display Label
204 /// </summary>
205 /// <param name="text"></param>
206 /// <param name="clear"></param>
207 2 references
208 private void addTextToInventoryDisplay(string text, bool clear)
209 {
210     if (clear) { lblInventoryDisplay.Text = ""; } // reset lblInventoryDisplay
211     lblInventoryDisplay.Text += (text + "\n"); // add supplied text to label, with newline at end
212 }
213
214 }
```

Finally, the `addTextToInventoryDisplay()` function. Takes the text and a Boolean value for displaying certain things on the label. Will first check to see if the label needs to be reset, then will add the desired text to the label along with a newline character.