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BUS 110A Project Additional Features

Note: We did the advanced project. To run the GUI, you only need to run the file called ‘Class\_LeVinCoupe.py’ which is within the ‘Tkinter\_files’ folder. We split each of the features up into separate .py files to make reading/finding certain pieces of code easier.

To run the project without the GUI, you only need to run the ‘LeVinCoupe\_main.py’ file which is within the ‘Regular Project’ folder. The project may take a minute to actually start running the first time you prompt it to run due to the large amount of files/code.

**Additional Features:**

**1.** Association test with ability for user to input the two desired characteristics (option d in our menu). NOTE: This feature is not in our GUI, it’s only in the regular project when running the ‘LeVinCoupe\_main.py’ file that runs through the Python console.

**2.** Printed min and max value for user chosen characteristic in frequency distribution and prompted a user to enter a value within the range (including the lower and upper limits). NOTE: Within our GUI, this message is only displayed if you enter a value outside of the range of values for the chosen characteristic. Within the regular project that runs through the Python console, the message is displayed as soon as the user chooses their desired characteristic.

**3.** Alerting users to inputted values that are more than 2 SDs from the mean for their chosen characteristic for the frequency distribution.  
 -Note that the graph will still be displayed if the user enters a value more than 2 SDs away from the mean for their chosen characteristic after the user clicks ‘Ok’ on the popup message in the GUI.  
 -Min/Max and Mean/SD values for all wine characteristics are listed at the top of the ‘Frequency\_Distribution’ file within the ‘Regular Project’ folder.

**4.** Blending recommendations for the frequency distribution results:  
 -Issued a blending recommendation if a user enters a value for volatile acidity above the regulated amount set by the federal Tax and Trade Bureau for red and white wines (for red wines, the max volatile acidity allowed is 0.14. For white wines, the max volatile acidity allowed is 0.12.) Note that the distribution will still be displayed after the user clicks ‘Ok’ on the popup message in the GUI.  
 -Issued a blending recommendation if user enters a value for residual sugar greater than or equal to 20.  
 -Issued a blending recommendation if user enters a value for residual sugar below 4.  
 -Issued a blending recommendation if user enters a value for fixed acidity greater than or equal to 12.

**5.** GUI