Project Requirements and User Stories

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| Project Requirements | User Stories |
| 1. Output the list of wineries and their distance from The Canyon Villa | As a user, I want to be able to output the list of wineries and their distances from the villa. The wineries will be displayed nicely in a list and the distances should appear when the corresponding winery is clicked. |
| As a programmer, I want to create a class to hold the distances, name, wines, and other information for wineries. |
| 1. Offer the option to plan a custom trip or have the shortest trip planned | As a villa guest, I would like to be able to plan a trip that will allow me to: Select a winery to begin at, obtain the number of wineries to visit, Display list of wineries visited, and display the total distance traveled. |
| As a guest of Canyon Villa, I would like the ability to plan a custom trip option so I can plan which wineries I'd like to visit. |
| 1. If shortest trip (most efficient really)    1. Allow a user to select a beginning winery    2. Obtain the number of wineries to visit    3. Display the list of wineries visited    4. Display the total distance traveled | As a villa guest, I would like to be able to plan a trip that will allow me to: Select a winery to begin at, obtain the number of wineries to visit, Display list of wineries visited, and display the total distance traveled. |
| 1. If custom trip    1. Allow a user to select all wineries they wish to visit    2. Plan the trip starting with the selected winery closest to The Canyon Villa then visit each of the other wineries in the most efficient order (the least amount of driving mileage)    3. Display the total distance traveled | As a guest of Canyon Villa, I would like the ability to plan a custom trip option so I can plan which wineries I'd like to visit. |
| 1. Have an option to visit all the wineries    1. Display the total distance traveled | As a guest of the Canyon Villa I would like to be able to visit all of the wineries and be informed of the total distance traveled. |
| 1. When taking a trip:    1. A user can shop for wines    2. You must keep track of the number of bottles of wine purchased and the total spent at each winery (plus a grand total) | As a customer of the canyon villa, I would like an easy to use and intuitive GUI with buttons that lead to different options to plan and take my winery trip. The GUI should not change the window when I visit those options. The GUI should have buttons to access different instances of the window for program features, input fields/options for user input, and display text properly. |
| As a programmer, I want a wine class to hold the name and prices of wines used by a winery. This will allow me to store the data of the wine and use it throughout the program. |
| As a customer of the canyon villa, I want to be able to shop for wines at each winery, use a shopping cart to keep track of my purchases, and view the total of my purchase. |
| As a customer of the canyon villa, I would like to print the winery list and the bottles sold at each winery. |
| 1. Maintenance (administrator only - requires a pass code to gain access)    1. Add new wineries    2. Add new wines to existing winery    3. Change prices of wines | As an administrator of the canyon villa, I want to be able to change the price of wines in the program. |
| As an administrator of the canyon villa, I want to be able to allow super users to add wineries to the program. |
| As the organizer of Canyon Villa's winery tours, I would like to be able to use a Graphical User Interface to be able to edit wineries and tour information with a user-friendly interface. |
| As an administrator of the canyon villa, I want to be able to update the list of wines the wineries offer, but only allow a maximum of 10 wines per winery. |