

Problem Domain:	String Practice / Reporting
Mission Summary:	Parse, Tabulate & Practice Reporting Operations
Prerequisite:	Completion of Exercise PR20
Your Script Name:	PR21_QuoteInfo.py
Solution Name:	PR21S_QuoteInfo.py
Version:	1.0

Synopsis

Python 1000 covered the use of many string operations, as well as the most common collection types and their usage. In this exercise, we will practice menu-driven reporting, as well as use string collections to assist with creating various reports on our dictionary of quotations.

Requirements

- 1) Create a menu-driven console application
- 2) MENU OPTIONS
 - A) "1.) List Authors" - Display a sorted list of unique author names
 - B) "2.) Word Counter" - Count & display a sorted list of unique words for all quotations
 - C) "5.) Quit" - Exit the program
- 3) BONUS
 - A) When displaying the list of authors and / or quotations, sort the results by the author's last name where possible

Developer Notes

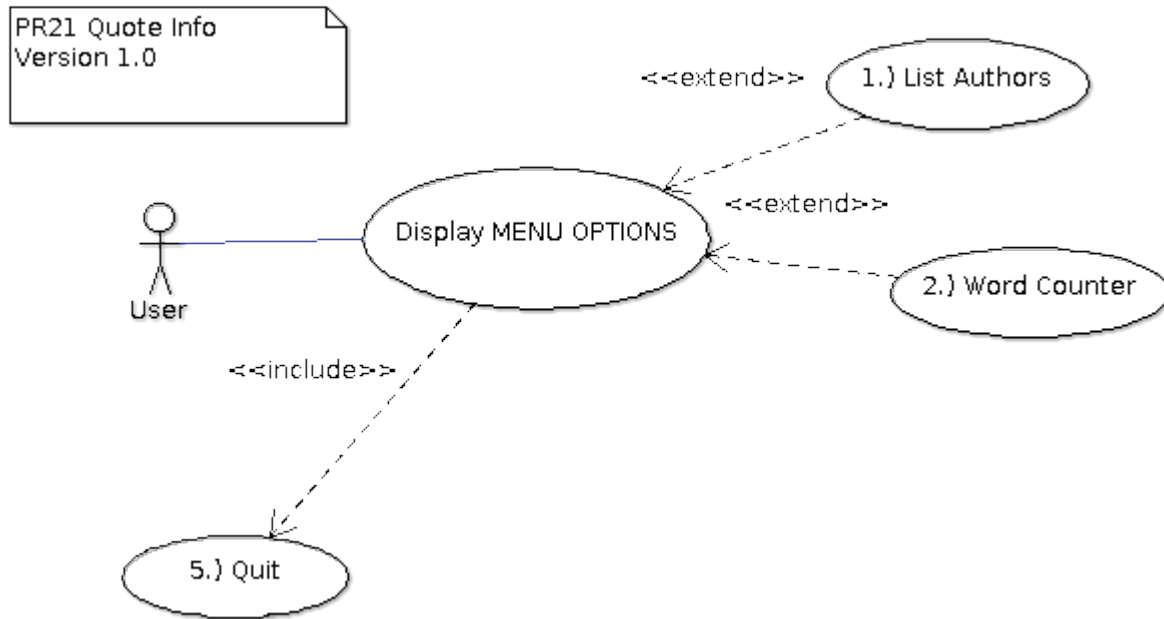
When creating a new application for the first time, it is often best to use a "divide and conquer" approach. In this case, we can divide our work so as to implement the menu system first, then - after all of the plumbing is working well - implement & test a single feature at-a-time. Therefore:

- 1) Save a copy of your solution for Exercise PR20 as PR21_QuoteInfo.py
- 2) Create a list of menu options as defined by MENU OPTIONS (above)
- 3) Create a list of corresponding functions
 - A) Print the name of the function when the function is called
 - B) (We will update each function to perform its proper operation later on!)
- 4) Test to ensure that the menu options call the expected functions
- 5) Once the menu system works as expected, implement the required operations

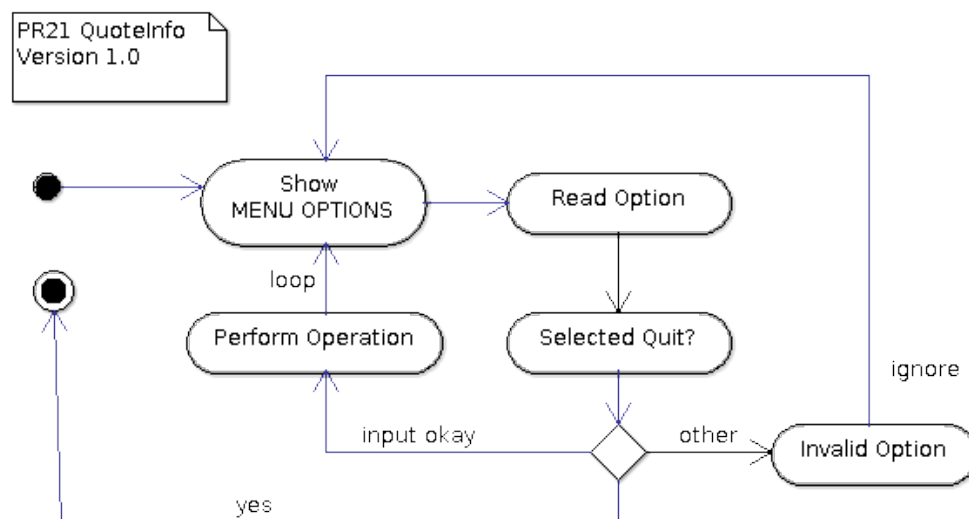
Related Diagrams

The following is a graphical requirement overview.

1.) The top-level Use Case defines the top-level scenarios:



2.) The main Activity Diagram depicts a high-level summary of the requirements, as well. Lower-level / implementation details are left to the software developer:



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