1000.09: Enhanced Reporting

Problem Domain:	String Practice / Reporting
Mission Summary:	Practice Reporting Operations
Prerequisite:	Completion of Exercise PR08
Your Script Name:	PR09_QuoteInfo.py
Solution Name:	PR09S_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

Developer Notes

When creating a new application, it is often best to use a "divide and
conquer" approach. For the above set of requirements, we can divide

our work so as to implement the menu system first. After each of the
menu operations are being called, we can then implement a single
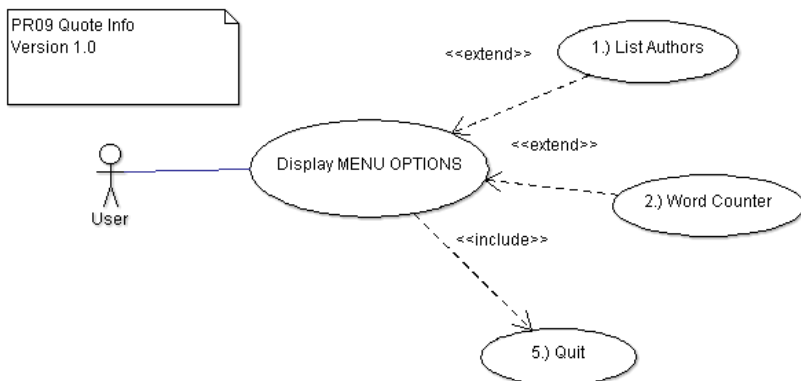feature at-a-time.

Therefore:

1) Save a copy of your solution for Exercise PR08 as PR09_QuoteInfo.py
2) Create a list of menu options as defined by MENU OPTIONS (above)
    a) Define a list of corresponding functions for each menu
        selection
    b) Print the name of the function when the function is called
    c) Test to ensure that menu choices call the proper functions
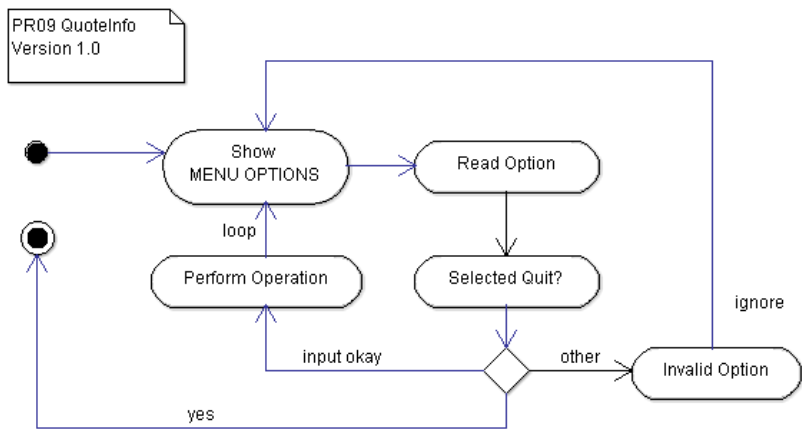3) Once the menu system works as expected, implement the required
    operations

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:

PR09 QuoteInfo
Version 1.0

Show
MENU OPTIONS

Read Option

loop

Perform Operation

Selected Quit?

ignore

input okay

other

Invalid Option

yes

Note that there is not much here for PR09!