

## **1000.10: Enhanced Reporting**

Problem Domain:	String Practice / Reporting
Mission Summary:	Practice Reporting Operations
Prerequisite:	Completion of Exercise PR09
Your Script Name:	PR10_QuoteInfo.py
Solution Name:	PR10S_QuoteInfo.py
Version:	1.0

### **Synopsis**

Software developers are usually required to enhance existing applications. In this exercise, we will update the menu-driven reporting capabilities of PR10.

### **Requirements**

- 1) Update your menu-driven quotation application by adding the following features to MENU OPTIONS:
  - a) "3.) Search Quotes"
    - i) Display quotations contain a single word
    - ii) Quotation numbers displayed must match the number provided by the "List Quotes" operation, described next
  - b) "4.) List Quotes"
    - i) List all Quotes
- 2) BONUS
  - a) When displaying the list of authors and / or quotations, use the default banner format from PR08

## Developer Notes

We could either use the “divide and conquer” strategy, or simply dive right in to add each of the above features and our previously created menu & functional landscape.

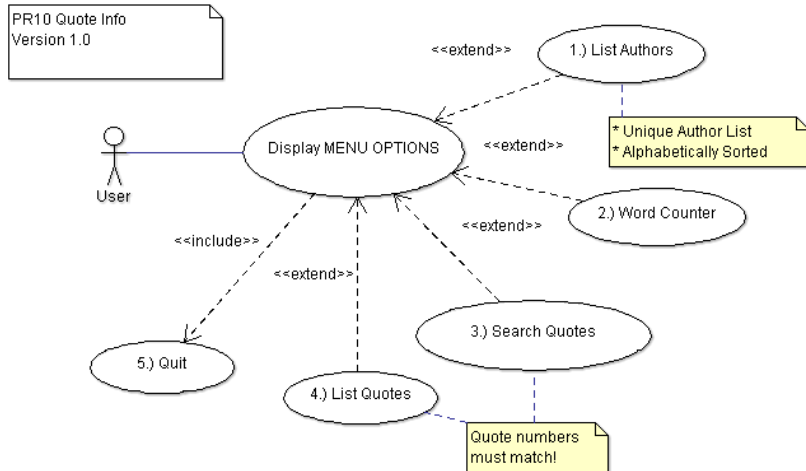
To use the divide and conquer strategy:

- 1) Save a copy of your solution for Exercise PR09 as PR10\_QuoteInfo.py
- 2) Update the list of menu options to match those required by MENU OPTIONS (above)
- 3) Create a set of corresponding functions
- 4) Once again, print the name of the function when the function is called
- 5) Update each function to perform its proper operation after insuring that each new menu option calls each associated function
- 6) Once the menu system works as expected, implement & test all operations

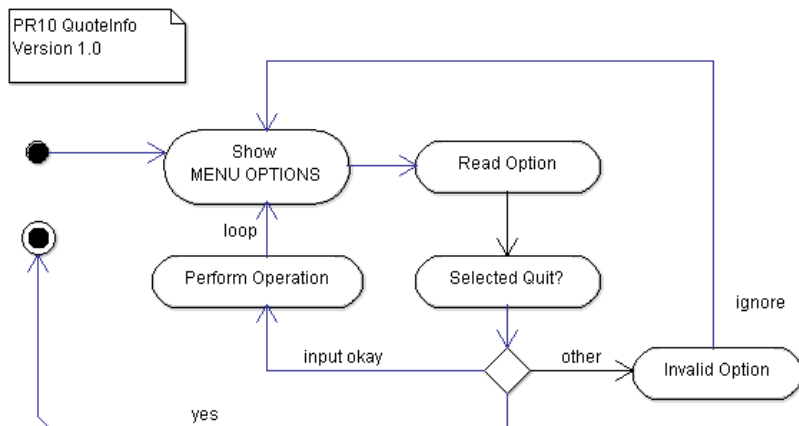
## Related Diagrams

The following is a graphical requirement overview.

- 1.) The top-level Use Case for PR10 defines the final set of scenarios for the QuoteInfo project:



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:



Note that the defined set of are very coarse grained.