Petrotranz – Programming Test

Create a small application that implements 4 of the 5 following:

- Return a distinct list of all the characters in the file along with their counts. The results should be sorted by character.
- Return a distinct list of all punctuation in the file along with their counts. The results should be sorted based on punctuation occurrence from most frequent to least frequent.
- Return a list of distinct words and their respective counts ordered alphabetically.
- Return a list of matches with the matching line number based on a given "search request". The "search request" could be a single word, multiple words, or a phrase.
- Return top "X" used words (with an option to include or exclude conjunctions) and their counts where "X" is a passed in parameter.

Use any language that you feel comfortable with, but C# is preferred.

The results can be dumped to a log file or output to the console.

The included files "A Tale of Two Cities - Charles Dickens.txt" and "Alices Adventures in Wonderland - Lewis Carroll.txt" should be used to demonstrate your program's completeness.

With the time constraints, please list any assumptions you make and list any tools you used to create your solution.

We will be evaluating the different aspects of software development from the specification generation above to the final application.