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## Assumptions

You can assume the following are true.

* Files and their content won’t change between calls to the service, nor will files be added or removed.
* You have all the memory you need (No need to optimise for memory constraints).

The purpose of this exercise is to produce a piece of code that meets professional standards to be used as a conversation piece in the interview. Please bear in mind that these are the minimum requirements and that the exercise is intentionally open-ended.

# Task

*Create a web-service that searches a configured directory, including subdirectories, for files containing all words in a list of words that are provided to the service via an HTTP call.*

* Present a simple RESTful API to allow a search to be performed.
* Allow searching with multiple words.
* Multiple word searches should return only files that match all words (AND search).
* Should perform whole word matches.  
  i.e. A search for ‘Cat’ should not match the word ‘Scatter’.
* No fuzzy search required.  
  No need to worry about wildcards, stemming, substring matches etc.
* Return results as quickly as possible.
* Your code should be production ready code, and up to a professional standard.

Interview Coding Test

File Search REST API