

Mini Assignment

Hi, thanks for your interest in Slang Labs. As part of the recruitment process, we would like you to submit code for review of this assignment.

The assignment is as follows:

- Design and implement APIs that accepts a set of documents and stores them.
- For the APIs, you may use Flask, Tornado or any other Python server packages that you may be comfortable with.
- For the storage system, you may use file-system based storage.
- Design and implement another set of APIs that accepts a string and performs TF-IDF (<https://en.wikipedia.org/wiki/Tf%E2%80%93idf>) search on the documents. And returns the document ID and the TF and IDF scores for the documents.
- Attempt to implement the TF-IDF formulas yourself and not use an off the shelf package.
- For unit tests you may use any test package you are familiar with. Otherwise you may use the following: (<https://docs.python.org/3/library/unittest.html>)
- Write a Python script that is able to upload the files to the API given the folder path that contains the documents.
- Write another small Python script that takes the sentence input from the standard input (input() command of python), sends the request to your API and prints the returned values.
- Upload the code onto GitHub and send us the link. Add a .md file with good documentation on how to run the scripts and unit tests and a description of what the code does.

Keep in mind that the aim of this assignment is to measure your ability to write production code that is readable and well tested. This means the following aspects would be considered:

- How your code is modularized and broken into parts. - 5 points
- How clean your naming protocols are - 3 points
- How well your unit tests are written. - 8 points
- How correct your business logic is - 5 points
- Github upload - 4 points