

Assignment 4 (Vector Space Retrieval)

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Dependencies:

Python 3.7 (<https://www.python.org/downloads/>)

NLTK 3.4 (<https://www.nltk.org/>)

Flask 1.0.2 (<http://flask.pocoo.org/>)

Bootstrap 4.3 (<https://getbootstrap.com/>)

PyCharm (<https://www.jetbrains.com/pycharm/download/>

#section=mac)

MacOS 10.14 (<https://www.apple.com/mac/>)

Build Instructions:

```
$ pip install -U Flask
```

```
$ pip install -U nltk
```

Run Instructions:

To start the application:

```
>>> python vs_query.py
```

To terminate the application, use control-c

To use the application within a browser, use the url: <http://127.0.0.1:5000/>

Modules: NLTK, Flask

Stemmer: SnowballStemmer from NLTK

Folders: shelf folder stores the shelf files and temp json file, corpus folder stores films corpus json file and test corpus json file

Testing: Tested by searching manually.

Query examples: good day, king of sweden, hello, hello world xxx, xxx dsarwe cfrfwe, 西虹市首富, and blank

Benchmark: Generate the shelf file cost about 50sec