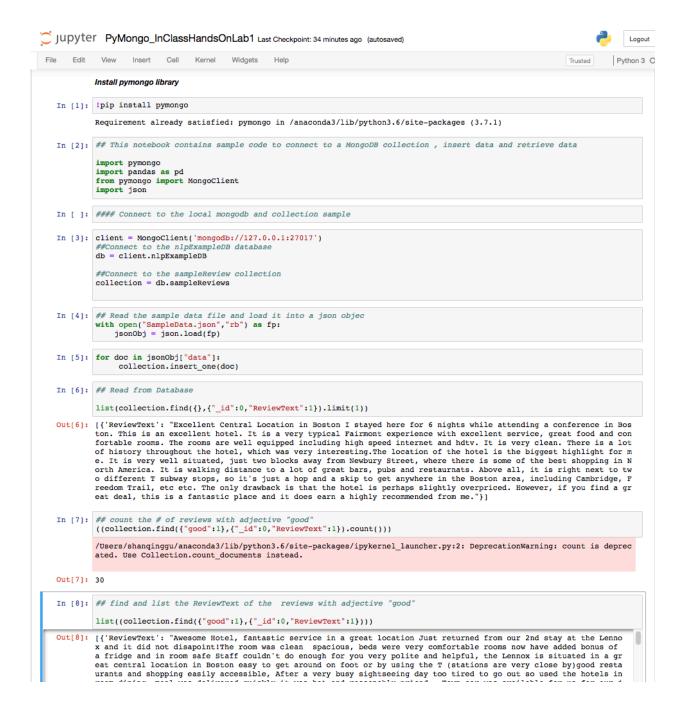
MSDS 7330 HW12 Due Date: 08/06/2018

Unit 12: HandsOn Lab 1



Unit 12: HandsOn Lab 2

Content Management Database using MongoDB

InClass Assignment:

Add a new service to search for documents by the tags and return to the customer

This exercise builds the backend services for a sample content management . The code builds the following services

The Rest Services can be started by running

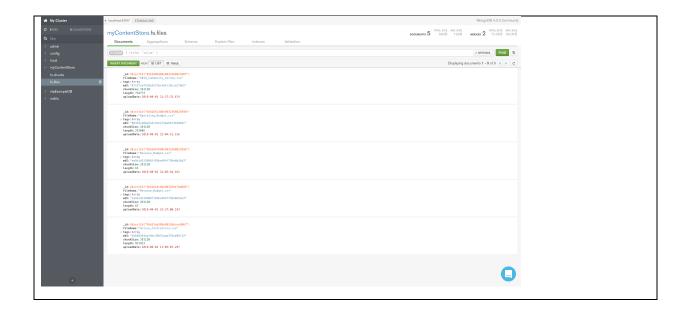
python cmdServices.py

uploadDocument

This service takes any file as its input and stores it in the database. The service also accepts additional meta tags about the files which can then be used for searching. A sample client program uploadFile.py is provided to "post" files to this service. The uploadFile.py can be edited to include the file to be upload from your local machine and the relevant tags

E.g. usage
python uploadFile.py





listDocument

This service lists all the documents that are uploaded in the database. Launch the following url in the browser http://localhost:5000/api/listDocuments

```
List uploaded documents
                                                                                    ● 第2 × python3.6
                                                              bash
                                                                                                                                         383
Last login: Thu Aug 2 11:02:48 on ttys002 -bash: Export: command not found
 Shanqings-MBP:~ shanqinggu$ cd desktop/InClass12
Shanqings-MBP:InClass12 shanqinggu$ ls
                                                               Hands0nLab2
 2014_Community_Survey.csv
 Active_Contractors.csv
                                                               Operating_Budget.csv
 HandsOnLab1
                                                               Revenue_Budget.csv
 Shanqings-MBP: InClass 12 \ shanqinggu\$ \ cd \ Hands 0nLab 2
 Shanqings-MBP:HandsOnLab2 shanqinggu$ ls
 HandsOnLab2.docx cmdServices.py
                                                                                              uploadFile.py
 Shanqings-MBP:HandsOnLab2 shanqinggu$ python cmdServices.py
* Serving Flask app "cmdServices" (lazy loading)
   * Environment: production
   * Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
   * Restarting with stat
   * Debugger is active!

* Debugger PIN: 623-067-097
* Debugger PIN: 623-067-097

127.0.0.1 - [02/Aug/2018 11:05:07] "POST /api/uploadDocument HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:06:23] "GET / HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:06:23] "GET /favicon.ico HTTP/1.1" 404 -

127.0.0.1 - [02/Aug/2018 11:06:23] "GET /HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:06:40] "GET / HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:06:52] "GET /api/listDocuments HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:07:41] "GET / HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:07:50] "GET /api/listDocuments HTTP/1.1" 200 -

127.0.0.1 - [02/Aug/2018 11:07:50] "GET /api/listDocument?fileId=5b631da388e9832d6cea306f HTTP/1.1" 200 -
```

```
127.0.0.1
                                                                                       127.0.0.1:5000/api/listDocuments
{
    "DocumentList": [
       "_id": "5b62605d88e983236602398f",
           "fileName": "2014_Community_Survey.csv",
            "tags": [
"dallas",
              "sidewalk",
              _id": "5b6266c388e983236602399b",
fileName": "Operating_Budget.csv",
          "_id": "5b626
"fileName": "
"tags": [
"dallas",
"sidewalk",
"csv"
           "_id": "5b6266f888e983236602399e",
"fileName": "Revenue_Budget.csv",
            tags": [
"dallas"
              "sidewalk",
"csv"
              id": "5h626e4c88e98325647da093".
          "_id": "5b626
"fileName": ":
"tags": [
   "dallas",
   "sidewalk",
   "csv"
           "_id": "5b631da388e9832d6cea306f",
"fileName": "Active_Contractors.csv",
            "tags": [
"dallas",
              "sidewalk".
              "csv"
```

getDocument

This service takes the _id value of the document and returns the file from the database E.g. http://localhost:5000/api/getDocument?fileId= 5b631da388e9832d6cea306f

