

## ATTENTION

In consideration of the usage of third party google api, my program is going to use my personal aws account and password to associate a pre-allocated ip address 34.237.131.228, which has been approved by TA Brett Grady as an exception.

Please follow the instruction below, although my deployment script has been very clear...

### Deploy AWS

1. Open a terminal
2. Change directory to deploySearchEngine
3. command 'ls '
4. command 'python oneClickDeployment.py '
5. When you see "After 2 minutes you can access the ip address 34.237.131.228"  
"@@@@@@@ ATTENTION @@@@@@@@ The program won't stop, therefore you have to close the terminal", you wait for 2 or 3 minutes, then the website will be fully functional.
6. You can now access 34.237.131.228 !

### Terminate AWS

1. In current directory 'deploySearchEngine'
2. Command 'python terminator.py'
3. Enter the instance\_id
4. Successfully terminated

## CODE ORGANIZATION

### deploySearchEngine(folder):

**Boto, paramiko:** libraries to control aws and to run remote command

**cloudEnter.py:** cloud server access

**cloudDeploy.py:** cloud deployment

**oneClickDeployment.py:** local one execution to initiate a fully functional website

**credentialAWS.txt:** contain my aws account and password

**ip\_instanceld.txt:** used to store ip address and instance id

### csc326project(folder):

**Local libraries:** beaker, boto, bottle, googlepiclient, httplib2, oauth2client, uritemplate.

**Crawler:** contain crawler.py, pageRank.py, BeautifulSoup.py, urls.txt

**Views:** include AWS version html and localhost version html (homePage, searchResultPage)

**Static :** contain all the pictures needed for the website

**localhostEngine.py:** localhost server for frontend

**searchEngineAWS.py:** aws server for frontend

**Client\_secrete\_aws.json:** google api credential for aws

**client\_secrete\_localHost.json:** google api credential for localHost

