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Code Organization
- The folder we submitted includes a separate folder called FrontEnd, where all files, views and databases related to FrontEnd are stored inside this folder.
- The crawler.py and pagerank.py are also submitted. However, the TAs and markers do not need to run this since the pre-computed databases is also submitted and uploaded to the server for usage.
- The three files aws_deployment.py, aws_setup.py and aws_terminator.py are all aws instance related operations to launch the search engine or terminate the aws instance.
The **libraries** that are required to run these files are: boto and paramiko.

Credential Modifications
- Users could modify the aws credentials in the aws_credentials.txt
- Please provide and modify the AWS_KEY_ID and AWS_SECERET_KEY_ACCESS
- Please follow the format, and do not add any white spaces or quotes, otherwise the file may fail to be parsed.

Launch Search Engine
- cd lab4_group_26
- python aws_deployment.py
- Please note that it may take a long time for the aws instance to stabilizes and initializes.
- Once the search engine is successfully launched, you will see a message like this:
  The website has been successfully set up, please access using the following:
  Public DNS is: ec2-xx-xx-xxx-xxx.compute-1.amazonaws.com
  Public IP is: xx.xx.xxx.xxx
  The instance ID is: i-xxxxxxxxxxxxxxx. Please use this to terminate the instance.

Terminate AWS Instance
- cd lab4_group_26
- python aws_terminator.py i-xxxxxxxxxxxxx (Please ensure that you provide the instance id that you want to terminate.
- A message will be printed indicating whether the instance has been successfully terminated or not.