

Multithreaded Web spider in Python

Group 4 Members

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Requirements:

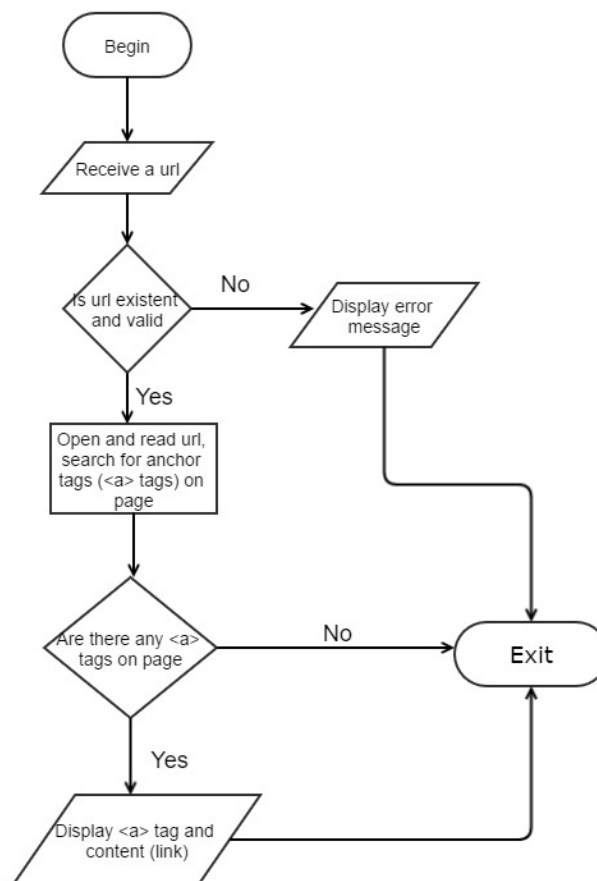
Hardware

- RAM: 4GB
- Hard drive: 500GB
- Processor: 2.2GHz

Software

- Operating System: Windows 10 Home and Kali Linux Rolling
- Text Editor: Notepad++/sublime text
- Language: Python 2.7
- Documentation: Microsoft Office Word
- ***Libraries Needed:***
 - Urllib
 - Urllib
 - BeautifulSoup

Flowchart



Source Code Snippet

```
webcrawlerwork.py
1 import urlparse
2 import urllib
3 from bs4 import BeautifulSoup
4
5 url = "http://www.localhost/dashboard/"
6 urls = [url]
7
8 if len(urls) > 0 :
9     try:
10         htmltext = urllib.urlopen(urls[0]).read()
11     except:
12         print urls[0]
13     soup = BeautifulSoup(htmltext, "lxml")
14
15     urls.pop(0)
16
17     for tag in soup.findAll('a', href=True):
18         print tag
19
20
```

Output

```
root@Elkaine:~/Desktop/Scripts# python webcrawlerwork.py
<a href="/dashboard/index.html">Apache Friends</a>
<a href="#">
<span>Menu</span>
</a>
<a href="/applications.html">Applications</a>
<a href="/dashboard/faq.html">FAQs</a>
<a href="/dashboard/howto.html">HOW-TO Guides</a>
<a href="/dashboard/phpinfo.php" target="_blank">PHPInfo</a>
<a href="/phpmyadmin/">phpMyAdmin</a>
<a href="/dashboard/faq.html">FAQs</a>
<a href="/dashboard/howto.html">HOW-TO Guides</a>
<a href="https://community.apachefriends.org">Forums</a>
<a href="https://www.apachefriends.org/community.html#mailing_list">Mailing List</a>
<a href="https://www.facebook.com/we.are.xampp">Facebook</a>
<a href="https://twitter.com/apachefriends">Twitter</a>
<a href="https://plus.google.com/+xampp/posts">Google+</a>
<a href="https://translate.apachefriends.org/">translate.apachefriends.org</a>
<a href="https://translate.apachefriends.org/">translate.apachefriends.org</a>
<a href="http://bitnami.com/stack/xampp?utm_source=bitnami&utm_medium=installer&utm_campaign=XAMPP%2BModule" target="_blank">Bitnami XAMPP page</a>
<a href="http://bitnami.com/stack/xampp?utm_source=bitnami&utm_medium=installer&utm_campaign=XAMPP%2BModule" target="_blank"></a>
<a href="https://twitter.com/apachefriends">Follow us on Twitter</a>
<a href="https://www.facebook.com/we.are.xampp">Like us on Facebook</a>
<a href="https://plus.google.com/+xampp/posts">Add us to your G+ Circles</a>
<a href="https://www.apachefriends.org/blog.html">Blog</a>
<a href="https://www.apachefriends.org/privacy_policy.html">Privacy Policy</a>
<a href="http://www.fastly.com/" target="_blank">CDN provided by

</a>
root@Elkaine:~/Desktop/Scripts# python webcrawlerwork.py
```