



TRUSTED NEWS CODE USER GUIDE

Week 7 Assignment

ABSTRACT

This guide was created for UMUC Course, CMSC 495, Group 3 and describes the requirements and usage of the Trusted News Code (TNC) Software.

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Due: 07 October 2018

Version Control

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Introduction

Trusted News Code (TNC)

a. Description

The Trusted News Code (TNC) software is a Python Web Application which searches the articles on the websites of provided news organizations to retrieve news articles, count the number of times an article is found, and provide the user a list of articles prioritized by their trustworthiness with a link to the main article. This guide is meant for the administrator of the TNC program, as regular users have no need to install the program as it is regularly accessed via the internet.

Requirements

a. System Requirements

The following are the minimum required system and software to support a Python based news indexing system, using Flask, Newspaper and SQLite modules:

- Processors:
 - a. Intel® Core™ i5 processor 4300M at 2.60 GHz
- Memory:
 - a. 8 GB of RAM
- Disk space:
 - a. 3 GB
- Operating systems:
 - a. Windows® 10, macOS (Sierra), or Linux (Ubuntu 16.04)
- Browsers: Microsoft Edge, Google Chrome, or Mozilla Firefox
- Applications:
 - a. Python version 3.7.0
 - i. Additional Python Modules (Install with pip):
 1. Flask
 2. Newspaper3k

The Trusted News Code is maintained on the Social Software Development Site GitHub and can be retrieved at <https://github.com/Mercury-6-Solutions/CMS495/tree/master/src>. Users are encouraged to periodically check the site for new updates, codes, or information pertaining to future enhancements. To install the TNC for initial use, please follow the below Installation guidelines.

(Note) This guide assumes that the user has already installed Python 3.7.0 (or greater).

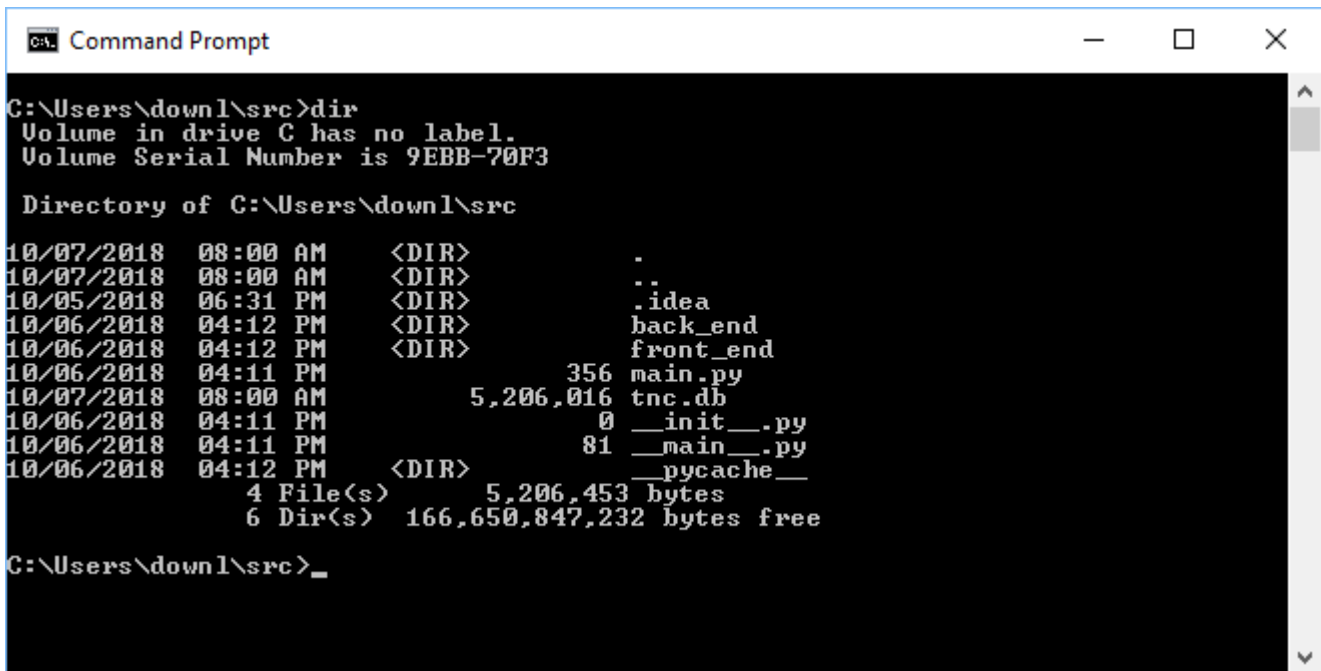
Installation

Step 1: (Download Code)

Download the Source Code (src folder) from <https://github.com/Mercury-6-Solutions/CMS495/tree/master/src>.

The contents should be the following:

(Note) Your directory path (C:\xxxx\xxxx\src) may look different depending on where you install the src code.



```
C:\Users\downl\src>dir
Volume in drive C has no label.
Volume Serial Number is 9EBB-70F3

Directory of C:\Users\downl\src

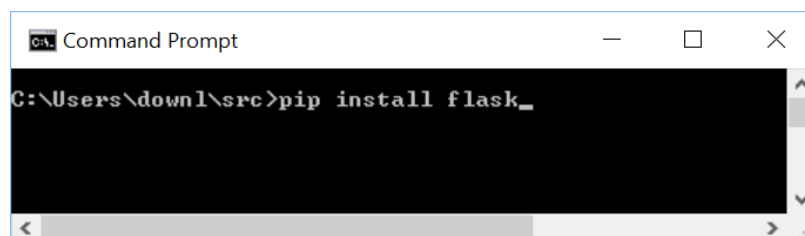
10/07/2018  08:00 AM    <DIR>          .
10/07/2018  08:00 AM    <DIR>          ..
10/05/2018  06:31 PM    <DIR>          .idea
10/06/2018  04:12 PM    <DIR>          back_end
10/06/2018  04:12 PM    <DIR>          front_end
10/06/2018  04:11 PM             356 main.py
10/07/2018  08:00 AM       5,206,016 tnc.db
10/06/2018  04:11 PM              0 __init__.py
10/06/2018  04:11 PM             81 __main__.py
10/06/2018  04:12 PM    <DIR>          __pycache__
               4 File(s)       5,206,453 bytes
               6 Dir(s)    166,650,847,232 bytes free

C:\Users\downl\src>_
```

Step 2: (Install Modules)

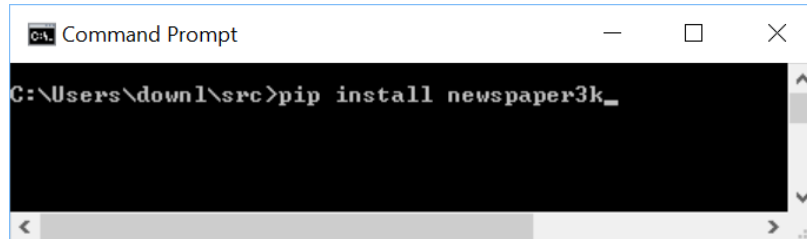
Install required python modules (flask, newspaper3k) by running the following commands from the command prompt (command line interface):

- a. pip install flask



```
C:\Users\downl\src>pip install flask_
```

- b. pip install newspaper3k



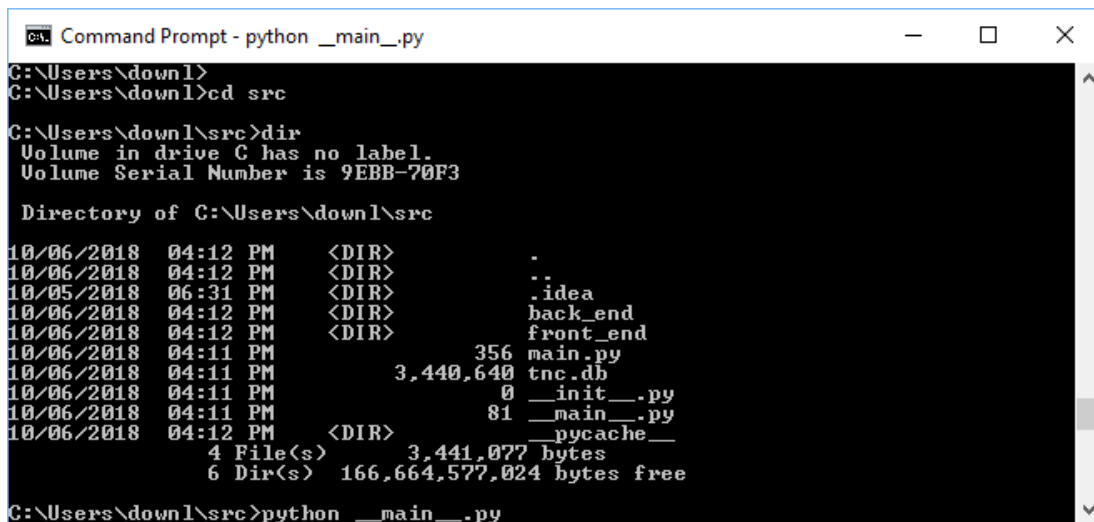
```
Command Prompt
C:\Users\downl\src>pip install newspaper3k_
```

Operation

Step 1: (Run the Program)

To run the program user opens up a command prompt from within their operating system and performs the following steps:

- a. Go to the src directory
- b. From the src directory type: python __main__.py



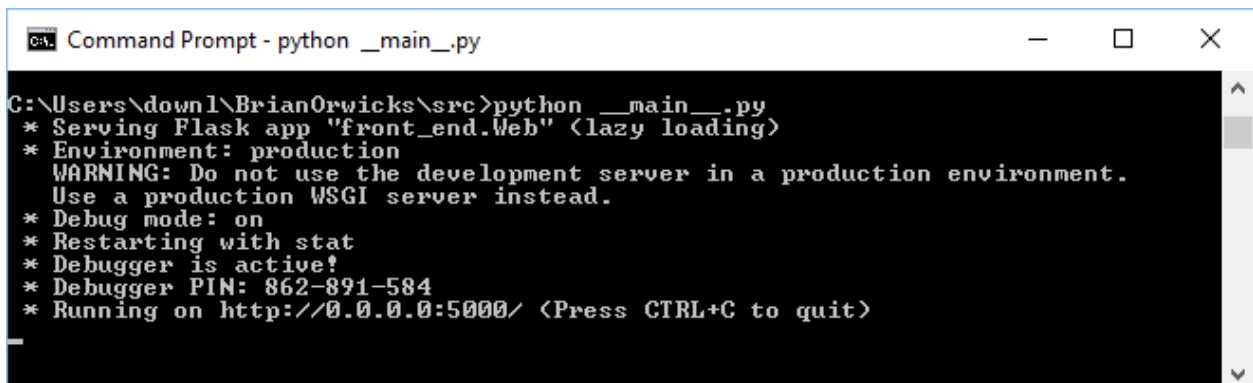
```
Command Prompt - python __main__.py
C:\Users\downl>
C:\Users\downl>cd src
C:\Users\downl\src>dir
Volume in drive C has no label.
Volume Serial Number is 9EBB-70F3

Directory of C:\Users\downl\src

10/06/2018  04:12 PM    <DIR>          .
10/06/2018  04:12 PM    <DIR>          ..
10/05/2018  06:31 PM    <DIR>          .idea
10/06/2018  04:12 PM    <DIR>          back_end
10/06/2018  04:12 PM    <DIR>          front_end
10/06/2018  04:11 PM             356 main.py
10/06/2018  04:11 PM      3,440,640 tnc.db
10/06/2018  04:11 PM              0 __init__.py
10/06/2018  04:11 PM             81 __main__.py
10/06/2018  04:12 PM    <DIR>          __pycache__
               4 File(s)      3,441,077 bytes
               6 Dir(s)    166,664,577,024 bytes free

C:\Users\downl\src>python __main__.py
```

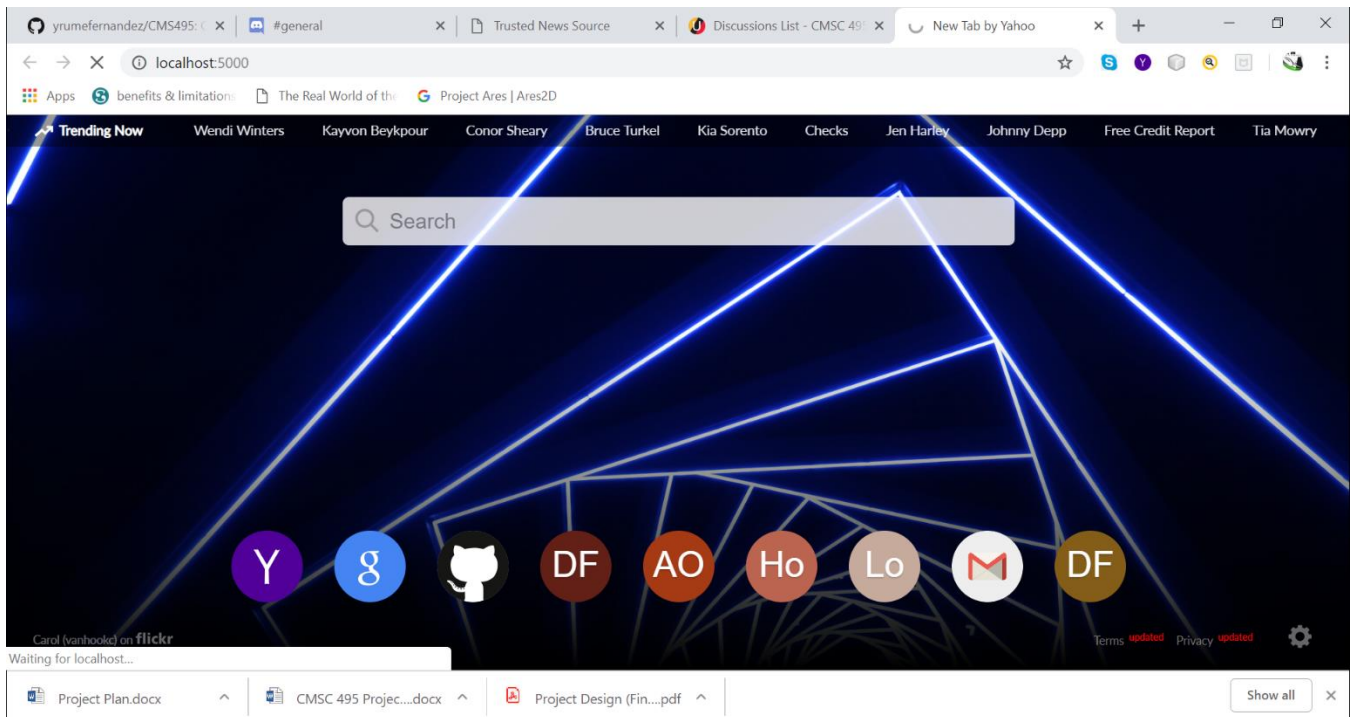
- c. Website is running, and program is operating once the following page is displayed:



```
Command Prompt - python __main__.py
C:\Users\downl\BrianOrwicks\src>python __main__.py
* Serving Flask app "front_end.Web" <lazy loading>
* Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 862-891-584
* Running on http://0.0.0.0:5000/ <Press CTRL+C to quit>
```

Step 2: (Using Website)

To test that the website is available to any users who want to access it to retrieve trusted news articles simply enter <http://localhost:5000> on any web browser, and the website will provide a list of articles, sorted from most referenced on the internet to lowest referenced by trusted news sources.

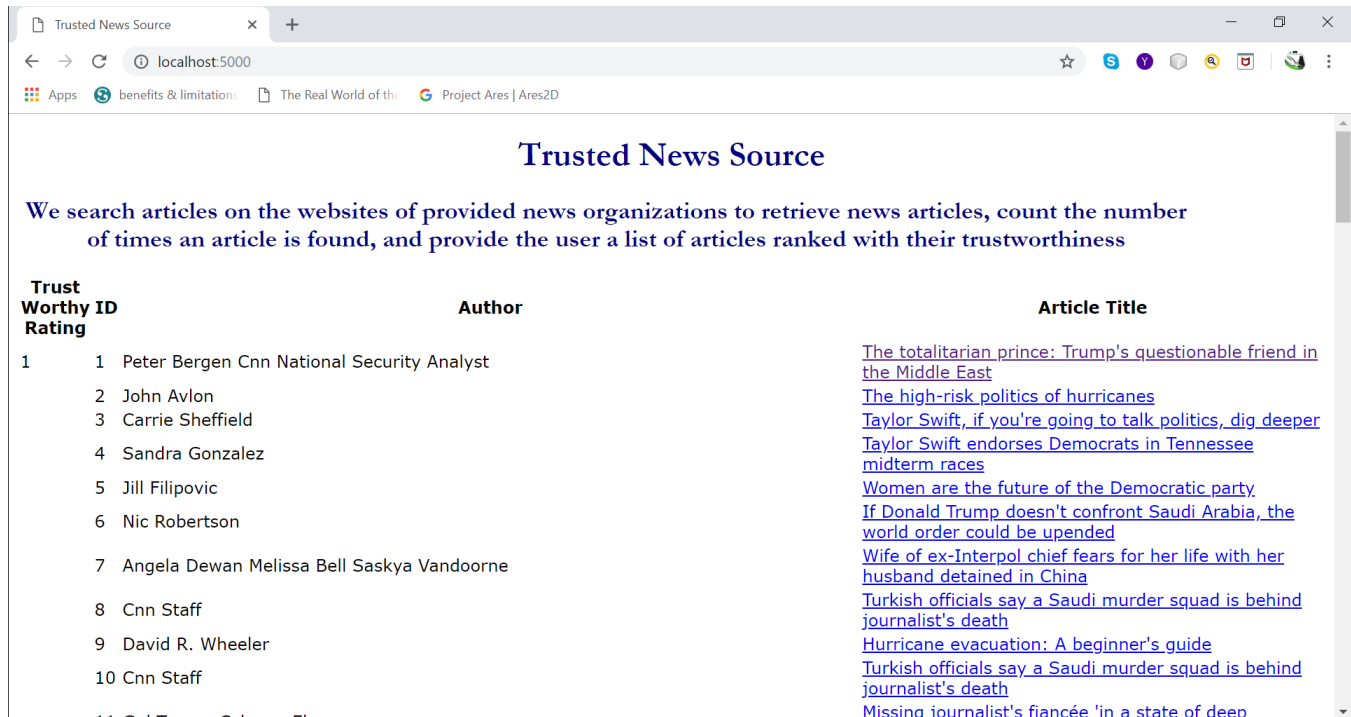


- Program will start retrieving articles, and displaying capture information on command prompt standard output (as shown below)

(Note) Please be patient as this will take some time as program retrieves articles from multiple sources and populates database. The errors you see below are not presented to normal users accessing the TNC program through the internet. These are only visible to the administrator of the TNC program. The errors are showing when articles cannot be downloaded, and therefore cannot be parsed.

```
Command Prompt - python __main__.py
id's 1 and 73 do not match with a 4.2682926829268295 percent match
id's 1 and 74 do not match with a 6.097560975609756 percent match
id's 1 and 75 do not match with a 10.772357723577237 percent match
id's 1 and 76 do not match with a 1.6260162601626018 percent match
id's 1 and 77 do not match with a 4.67479674796748 percent match
id's 1 and 78 do not match with a 8.333333333333332 percent match
id's 1 and 79 do not match with a 9.34959349593496 percent match
id's 1 and 80 do not match with a 2.0325203252032518 percent match
id's 1 and 81 do not match with a 1.6260162601626018 percent match
id's 1 and 82 do not match with a 10.569105691056912 percent match
id's 1 and 83 do not match with a 2.4390243902439024 percent match
id's 1 and 84 do not match with a 17.073170731707318 percent match
id's 1 and 85 do not match with a 2.0325203252032518 percent match
```

- b. Webpage will display Trusted News Source (Home Page) providing information and articles as requested (see below):



Trusted News Source

We search articles on the websites of provided news organizations to retrieve news articles, count the number of times an article is found, and provide the user a list of articles ranked with their trustworthiness

Trust Worthy ID Rating	Author	Article Title
1	1 Peter Bergen Cnn National Security Analyst	The totalitarian prince: Trump's questionable friend in the Middle East
	2 John Avlon	The high-risk politics of hurricanes
	3 Carrie Sheffield	Taylor Swift, if you're going to talk politics, dig deeper
	4 Sandra Gonzalez	Taylor Swift endorses Democrats in Tennessee midterm races
	5 Jill Filipovic	Women are the future of the Democratic party
	6 Nic Robertson	If Donald Trump doesn't confront Saudi Arabia, the world order could be upended
	7 Angela Dewan Melissa Bell Saskya Vandoorne	Wife of ex-Interpol chief fears for her life with her husband detained in China
	8 Cnn Staff	Turkish officials say a Saudi murder squad is behind journalist's death
	9 David R. Wheeler	Hurricane evacuation: A beginner's guide
	10 Cnn Staff	Turkish officials say a Saudi murder squad is behind journalist's death
	11 Cnn Staff	Missing journalist's fiancée 'in a state of deep