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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Class: CMSC 495 - Current Trends and Projects in Computer Science
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Version Control

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Introduction

<u>Trusted News Code (TNC)</u>

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.

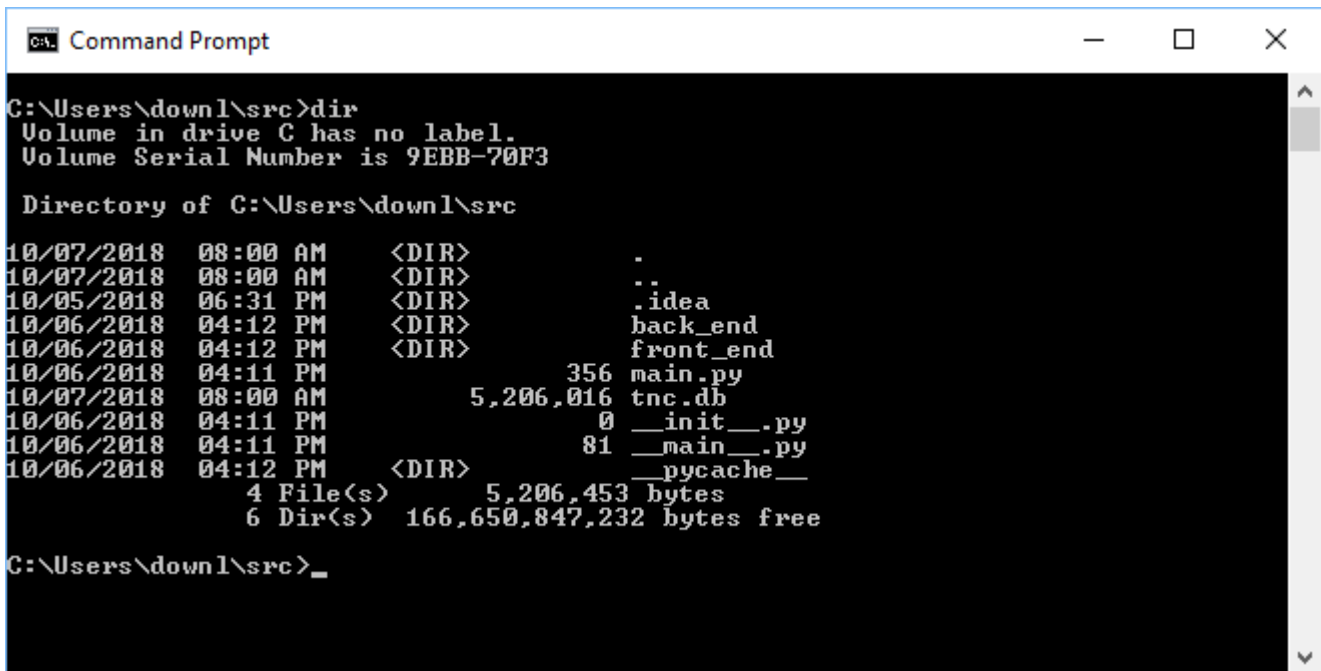(Note) This guide assumes that the user has already installed Python 3.7.0 (or greater).

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.

```
Command Prompt                                          —    □    ✕

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>_
```
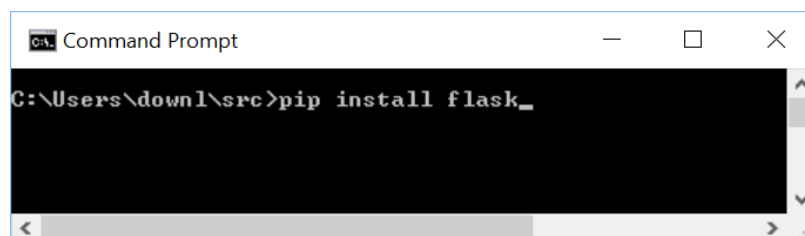
Step 2: (Install Modules)
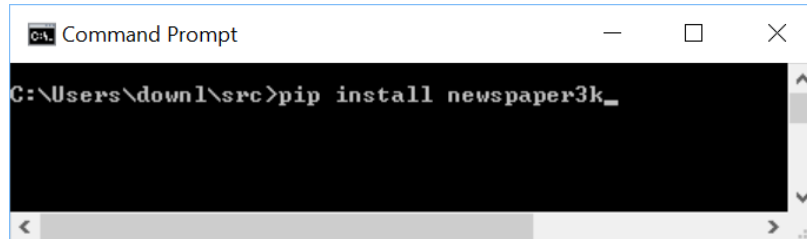
Install required python modules (flask, newspaper3k) by running the following commands from the command prompt (command line interface):
   a. pip install flask

```
Command Prompt                          —    □    ✕

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

b. 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
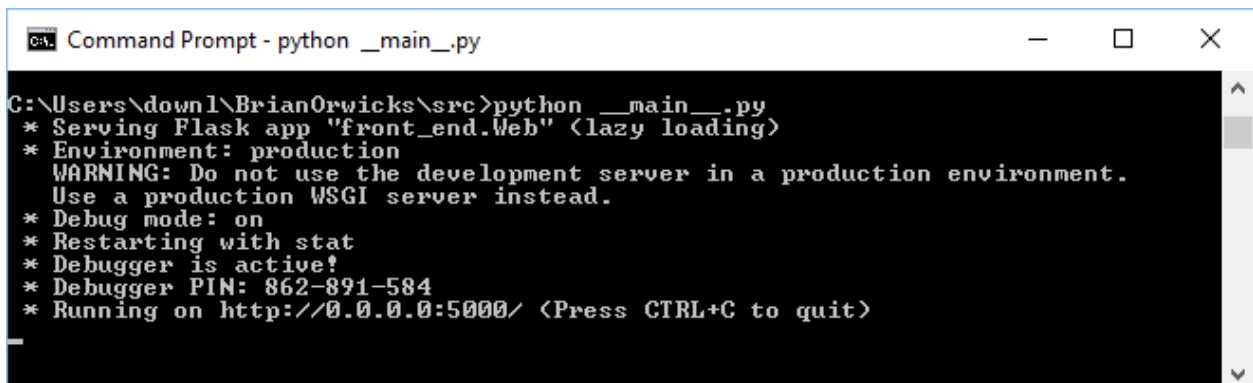b. From the src directory type: python __main__.py

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

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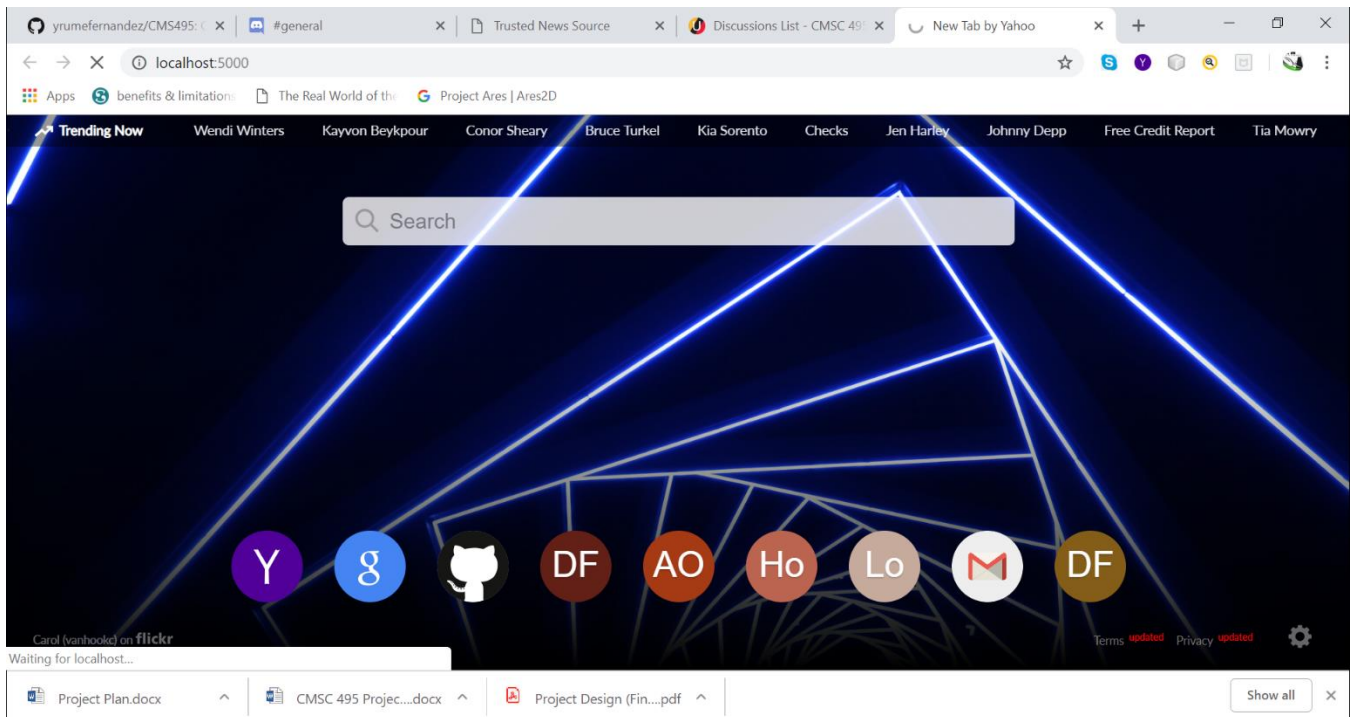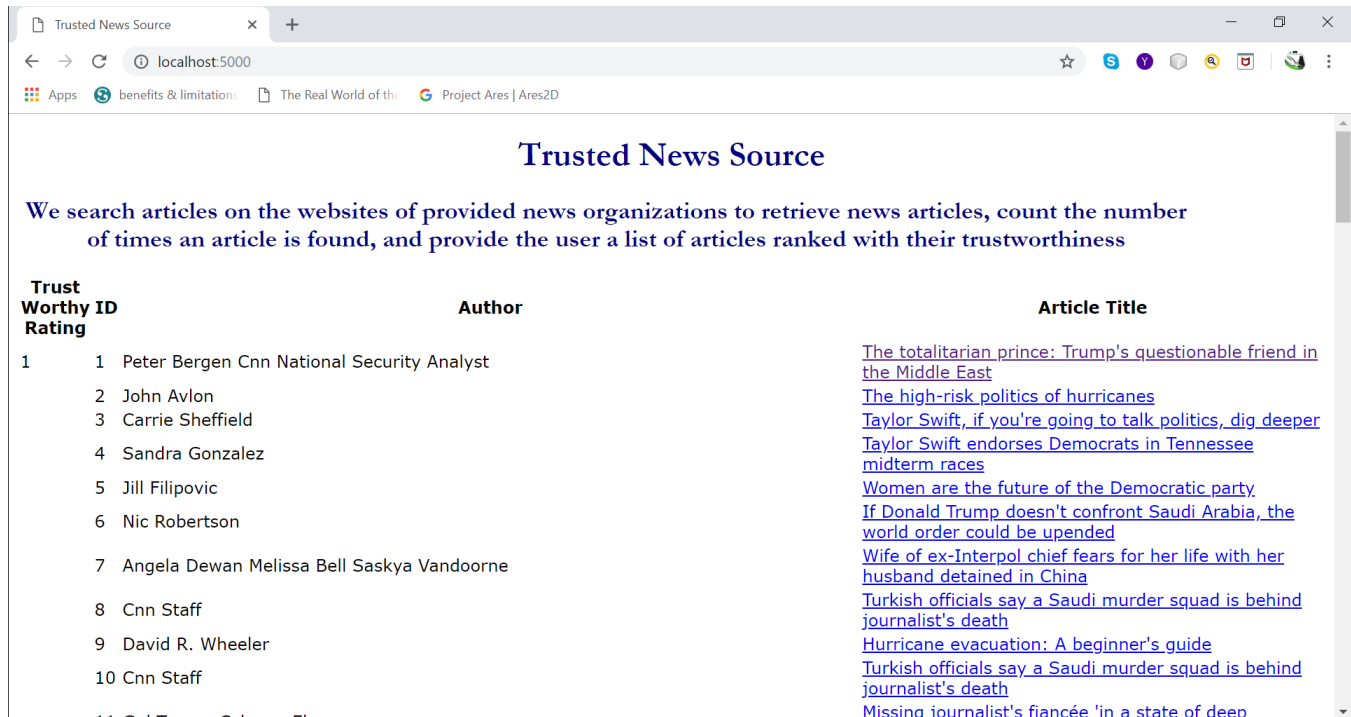
a. Program will start retrieving articles, and displaying capture information on command prompt standard output (as shown below)

(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.

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