▼ Lab#3, NLP@CGU Spring 2023

This is due on 2023/03/20 16:00, commit to your github as a PDF (lab3.pdf) (File>Print>Save as PDF).

IMPORTANT: After copying this notebook to your Google Drive, please paste a link to it below. To get a publicly-accessible link, hit the *Share* button at the top right, then click "Get shareable link" and copy over the result. If you fail to do this, you will receive no credit for this lab!

LINK: paste your link here

https://colab.research.google.com/drive/1JtNUYu3kF3eqEWllpEzk_EKy3n1xxEFl?usp=sharing

Student ID:B0928012

Name:王晟翰

Question 1 (100 points)

Implementing Yahoo Movies Crawler.

- 1. Design a Yahoo! Movie Crawler.
- 2. Crawl all the movie information listed in movie_intheaters page
- 3. The more movie data crawled, the higher the score

按兩下 (或按 Enter 鍵) 即可編輯

```
import requests
import re
from bs4 import BeautifulSoup
Y_MOVIE_URL = "https://movies.yahoo.com.tw/movie_intheaters.html"
# YOUR CODE HERE!
# IMPLEMENTIG YAHOO MOVIES CRAWLER
class MovieCrawler(object):
                def init (self):
                               self.headers = {
                                                'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.11
                               self.movies = []
                def get_movies(self, page_url):
                               res = requests.get(page_url, headers=self.headers)
                                soup = BeautifulSoup(res.text, 'html.parser')
                                movie_list = soup.find_all('div', class_='release_info')
                                for movie in movie list:
                                                # Get the Chinese name of the movie.
                                                ch_name = movie.find('div', class_='release_movie_name').a.text.strip()
                                                # Get the English name of the movie.
                                                en_name = movie.find('div', class_='release_movie_name').find('div', class_='en').a.text.strip()
                                                # Get the URL of the movie detail page.
                                                movie_url = movie.find('div', class_='release_movie_name').a['href']
                                                # Get the URL of the movie detail page.
                                                release_date = movie.find('div', class_='release_movie_time').text.strip()
                                                 release_date = release_date.split(' ')[-1]
                                                \mbox{\tt \#\#} Get the introduction of the movie.
                                                intro = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', ''). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', ''). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', ''). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', ''). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', ''). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip(). replace ('\n', '') = movie. find ('div', class\_='release\_text'). text. strip() = movie. strip() = 
                                                # Store the movie information in a dictionary and append it to the movies list.
                                                movie_dict = {
                                                                 'ch name': ch name,
                                                                 'en_name': en_name,
                                                                'movie_url': movie_url,
                                                                 'release_date': release_date,
                                                                'intro': intro
                                                self.movies.append(movie_dict)
                                # Find the link to the next page
                                next_page = soup.find('a', rel='next')
                                 if next_page:
                                                 # Construct the link to the next page and recursively call the get_movies() function.
                                                next_page_url = next_page['href']
```

self.get movies(next page url)

return self.movies

```
# # DO NOT MODIFY THE VARIABLES
crawler = MovieCrawler()
movies = crawler.get_movies(Y_MOVIE_URL)

# # THE RESULTS : AS THE FOLLOWING SECTION
# # {'ch_name', 'en_name', 'movie_url', 'release_date', 'intro'}
print(len(movies))
print(*movies, sep="\n")
```

'('ch_name': '配樂大師顏尼歐', 'en_name': 'Ennio: The Maestro', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo-main/%E7%86%8A%E8%93%8B%E6%AF%92-cocaine-coc {'ch name': {'ch name' {'ch_name': {'ch_name': {'ch_name': 'ch name': ('ch name' ch name': {'ch_name': {'ch name': {'ch name' 天生一對2大電影: 再續前緣', 'en_name': 'Love Destiny: The Movie', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E5%A6
尋找第5味', 'en_name': 'Umami', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E5%B0%8B%E6%89%BE%E7%AC%AC5%E5%91%B3-ur {'ch name': ('ch name': {'ch_name': 'ch_name' m细', 'en_name': 'Cyberheist', 'movie_url': '<u>https://movies.yahoo.com.tw/movieinfo_main/%E6%96%B7%E7%B6%B2-cyberheist-14809', 'n</u>'所有的美麗與血淚', 'en_name': 'All the Beauty and the Bloodshed', 'movie_url': '<u>https://movies.yahoo.com.tw/movieinfo_main/%E6%8</u>6 {'ch_name': 'ch name' · 過時·通節','en_name':'Hong Kong Family','movie_url':'https://movies.yahoo.com.tw/movieinfo_main/%E9%81%8E%F6%%99%81%8E% '8盤米:詛咒影帶','en_name':'8MM: The Sinister Record','movie_url':'https://movies.yahoo.com.tw/movieinfo_main/%E9%87%90%E7%1 ('ch_name' ch_name' {'ch name' {'ch name': {'ch name' {'ch_name': ch name ,本日公休, 'en_name': 'Day Off', 'movie_url': 'https://movies.vahoo.com.tw/movieinfo main/%E6%9C%AC%E6%97%A5%E5%85%AC%E4%BC%91-da {'ch_name': 本口公体, en_name': 'The New Toy', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E7%8E%A9%E5%85%B7%E7%95%B6%E5%AE% / 驚爆點', 'en_name': 'Point Break', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E9%A9%9A%E7%88%86%E9%BB%9E-point-bro 'ch name': {'ch_name': 大線埋伏', 'en name': 'Ambush', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo main/%E7%81%AB%E7%B7%9A%E5%9F%8B%E4%BC%8F-amt
小熊維尼: 血與蜜', 'en_name': 'Winnie the Pooh: Blood and Honey', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo main/%E5%B({'ch_name': ch name {'ch name': ('ch name' 人肉搜索2: 失蹤搜救', 'en_name': 'Missing', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E4%BA%BA%E8%82%89%E6%90%9C9
悲情城市', 'en_name': 'A City of Sadness', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E6%82%B2%E6%83%85%E5%9F%8E%I {'ch name': {'ch_name': {'ch_name': 'ch name' {'ch_name': ch name': '「鬼滅之刃」上弦集結,前進刀匠村','en_name': 'Demon Slayer Kimetsu No Yaiba To The Swordsmith Village','movie_url': '<u>https://m</u> ('ch_name': ['ch_name': '追海豚的長崎夏日','en_name':'Sabakan','movie_url':'https://movies.yahoo.com.tw/movieinfo_main/%E8%BF%BD%E6%B5%B7%E8%B1%9A%E79 蟻人與黃蜂女:量子狂熱','en_name':'Ant-Man and the Wasp: Quantumania','movie_url':'<u>https://movies.yahoo.com.tw/movieinfo_mair</u>超難搞先生','en_name':'A Man Called Otto', 'movie_url':'<u>https://movies.yahoo.com.tw/movieinfo_main/%E8%B6%85%E9%9B%A3%E6%90%9</u> ch name': {'ch name' 超難獨先生, en_name: A Man Called Otto', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo main/%E8%856%85%5%95%95%43%56%90%91' 關於我和鬼變成家人的那件事', 'en_name': 'Marry My Dead Body', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo main/%E5%81%81%E6%46%92%E9%AD%94%E4%B5%86%E4%B6%E6%B4%95%AD%94%E4%B5%E6%B4%B6%E4%B6%E6%B4%B6%E4%B6%E6%B4%B6%E6%B4%B6%E4%B6%E6%B4%B6%E6%B4%B6%E6%B4%B6%E6%B6%B6%E4%B6%E6%B {'ch_name': {'ch name': {'ch name': {'ch_name': 'ch_name' {'ch name': '瑪琳艾索普: 首席女指揮', 'en_name': 'Conductor', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E7%91%AA%E7%90%B3%E8%' 我的鯨魚老爸', 'en_name': 'The Whale', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E6%88%91%E7%9A%84%E9%AF%A8%E9%AF 'ch name': ('ch_name': 幻影', 'en_name': 'Phantom', 'movie_url': 'https://movies.vahoo.com.tw/movieinfo main/%E5%B9%BB%E5%BD%B1-phantom-14651', 'release
伊尼舍林的女妖', 'en_name': 'The Banshees of Inisherin', 'movie_url': 'https://movies.vahoo.com.tw/movieinfo main/%E4%BC%8A%E5%B0 ('ch name' ('ch name' 'en_name': 'Lyle, Lyle, Crocodile', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E9%B1%B7%E9%AD%9A%E6%AD9_ {'ch name':

✓ 4秒 完成時間: 下午3:59