▼ 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/1xw44U1B4bPeqP-Ue1RAD03xud9M0dVIv?usp=share_link

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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):
        pass
    def get movies(self, page url):
       resp = requests.get(page url)
        soup = BeautifulSoup(resp.text, 'html.parser')
       movies = []
        rows = soup.find_all('div', class_='release_info_text')
        for row in rows:
           movie_dict = {}
            ch_name = row.find('div', class_='release_movie_name').a.text.strip()
           movie dict['ch_name'] = ch_name # get Chinese name
            en_name = row.find('div', class_='release_movie_name').find('div', class_='en').a.text.strip()
            movie dict['en name'] = en name # get English name
           movie url = row.find('div', class_='release_movie_name').a['href']
            movie_dict['movie_url'] = movie_url # get movie url
            release date = row.find('div', class = 'release movie time').text.strip()
            movie_dict['release_date'] = release_date # get release date
            intro = row.find('div', class_='release_text').text.strip()
            movie dict['intro'] = intro # get intro
            movies.append(movie_dict)
        return 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': '<u>https://movies.yahoo.com.tw/movieinfo_main/%E9</u>
    {'ch_name': '熊蓋毒', 'en_name': 'Cocaine Bear', 'movie_url': 'https://movies.yahoo.com.tw/movieinfo_main/%E7%86%8A%E8%93%
```

```
import requests
import re
from bs4 import BeautifulSoup
Y MOVIE URL TEMPLATE = "https://movies.yahoo.com.tw/movie intheaters.html?page={}"
class MovieCrawler(object):
        def __init__(self):
        def get_movies(self, page_url):
                resp = requests.get(page url)
                 soup = BeautifulSoup(resp.text, 'html.parser')
                movies = []
                rows = soup.find_all('div', class_='release_info_text')
                 for row in rows:
                        movie dict = {}
                        ch_name = row.find('div', class_='release_movie_name').a.text.strip()
                         movie_dict['ch_name'] = ch_name # get Chinese name
                        en name = row.find('div', class = release movie name').find('div', class = en').a.text.strip()
                        movie_dict['en_name'] = en_name # get English name
                        movie url = row.find('div', class = release movie name').a['href']
                        movie dict['movie url'] = movie url # get movie url
                         release_date = row.find('div', class_='release_movie_time').text.strip()
                        movie_dict['release_date'] = release_date # get release date
                         intro = row.find('div', class_='release_text').text.strip()
                        movie dict['intro'] = intro # get intro
                        movies.append(movie_dict)
                 return movies
# # DO NOT MODIFY THE VARIABLES
crawler = MovieCrawler()
movies = []
# pages 1-8
for i in range(1, 9):
       page url = Y MOVIE URL TEMPLATE.format(i)
       movies_on_page = crawler.get_movies(page_url)
        movies.extend(movies_on_page)
# # 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
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```

4秒 完成時間:下午3:44