

▼ 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_EKy3n1xxEFI?usp=sharing

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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):
        self.headers = {
            'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110'
        }
        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]
            ## Get the introduction of the movie.
            intro = movie.find('div', class_='release_text').text.strip().replace('\n', '').replace('\r', '')

            # 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']
```

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