

▼ 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/17MvoLJSvGrTYAuITCsLuQWeKSbLlyVu3?usp=sharing>

Student ID:

Name:

▼ 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.movies = []

    def get_movies(self, page_url):
        resp = requests.get(page_url)
        soup = BeautifulSoup(resp.text, 'html.parser')
        movie_list = soup.find_all("div", class_ = "release_info_text")
        page = soup.find("div", class_ = "page_numbox").find("ul")

        pages = []
        for p in page:
            if (p.find("a") != -1 and p.find("a") != None):
                if (p.find("a").text.isnumeric()):
                    pages.append(p.find("a")["href"])

        for movie in movie_list:
            temp = {}

            ch_name = movie.find("div", class_ = "release_movie_name").find("a")
            temp["ch_name"] = ch_name.text[19: ]

            en_name = movie.find("div", class_ = "release_movie_name").find("div", c
            temp["en_name"] = en_name.text[21: ]

            movie_url = ch_name["href"]
            temp["movie_url"] = movie_url

            release_date = movie.find("div", class_ = "release_movie_time")
            t = ""
            for n in release_date.text:
                if (n not in ("\n", " ")):
                    t += n
            temp["release_date"] = t

            intro = movie.find("div", class_ = "release_text").find("span")
            temp["intro"] = intro.text

            self.movies.append(temp)

        for p in pages:
            resp = requests.get(p)
            soup = BeautifulSoup(resp.text, 'html.parser')
            movie_list = soup.find_all("div", class_ = "release_info_text")

            for movie in movie_list:
                temp = {}
```

```

ch_name = movie.find("div", class_ = "release_movie_name").find("a")
temp["ch_name"] = ch_name.text[19: ]

en_name = movie.find("div", class_ = "release_movie_name").find("div",
temp["en_name"] = en_name.text[21: ]

movie_url = ch_name["href"]
temp["movie_url"] = movie_url

release_date = movie.find("div", class_ = "release_movie_time")
t = ""
for n in release_date.text:
    if (n not in ("\n", " ")):
        t += n
temp["release_date"] = t

intro = movie.find("div", class_ = "release_text").find("span")
temp["intro"] = intro.text

self.movies.append(temp)

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")

```

77

```

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```

```

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