

Web Scraping_Selenium

November 20, 2020

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[ ]: !pip3 install selenium
!pip install chromedriver-binary
!pip3 install spacy
!python -m spacy download en_core_web_sm
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[1]: from bs4 import BeautifulSoup as bs
import requests
from selenium import webdriver
import chromedriver_binary
import spacy
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[2]: driver = webdriver.Chrome()
driver.page_source
nlp = spacy.load('en_core_web_sm')
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[3]: def book_scraping(href, driver, nlp):
    driver.get(href)
    soup = bs(driver.page_source, features='lxml')
    booktitle = soup.find_all('h1', id='bookTitle')[0].contents[0].strip()
    #series = soup.find_all('h2', id='bookSeries')[0].contents[1].contents[0].
    ↪strip()
    author = soup.find_all('span', itemprop='name')[0].contents[0].strip()
    descr = soup.find_all('div', id='description')[0].contents
    descr_fil = list(filter(lambda s: s!='\n', descr))
    if len(descr_fil) == 1:
        plot = ''.join(descr_fil[0].contents[0])
    else:
        descr_fil = descr_fil[1:-1]
        x = [j for i in descr_fil for j in i.contents if (isinstance(j,
    ↪str)==True)]
        plot = ''.join(x)
    avg_rating = soup.find_all('span', itemprop='ratingValue')[0].contents[0].
    ↪strip()
    ratings_reviews = soup.find_all('a', href='#other_reviews')
    for i in ratings_reviews:
        if i.find_all('meta', itemprop='ratingCount'):
            ratings = i.contents[2].split()[0]
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        if i.find_all('meta',itemprop='reviewCount'):
            reviews = i.contents[2].split()[0]
    doc = nlp(plot)
    token_list = [token for token in doc]
    sentiment_analysis = [token for token in token_list if not token.is_stop
↪and not token.is_punct]
    return (booktitle, author, plot, avg_rating, ratings, reviews,
↪sentiment_analysis)

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[4]: href = 'https://www.goodreads.com/book/show/9222475-infernal-devices'
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[5]: book_scraping(href, driver, nlp)
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[5]: ('Infernal Devices',
      'K.W. Jeter',
      "HE INHERITED A WATCHMAKER'S STORE - AND A WHOLE HEAP OF TROUBLE. But idle
      sometime-musician George has little talent for clockwork. And when a shadowy
      figure tries to steal an old device from the premises, George finds himself
      embroiled in a mystery of time travel, music and sexual intrigue. A genuine lost
      classic, a steampunk original whose time has come.",
      '3.36',
      '2,698',
      '387',
      [INHERITED,
       WATCHMAKER,
       STORE,
       HEAP,
       TROUBLE,
       idle,
       musician,
       George,
       little,
       talent,
       clockwork,
       shadowy,
       figure,
       tries,
       steal,
       old,
       device,
       premises,
       George,
       finds,
       embroiled,
       mystery,
       time,
       travel,

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music,  
sexual,  
intrigue,  
genuine,  
lost,  
classic,  
steampunk,  
original,  
time,  
come])
```

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[6]: href = 'https://www.goodreads.com/book/show/1137215.Boneshaker'
```

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[7]: book_scraping(href, driver, nlp)
```

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[7]: ('Boneshaker',  
      'Cherie Priest',  
      'In the early days of the Civil War, rumors of gold in the frozen Klondike  
brought hordes of newcomers to the Pacific Northwest. Anxious to compete,  
Russian prospectors commissioned inventor Leviticus Blue to create a great  
machine that could mine through Alaska's ice. Thus was Dr. Blue's Incredible  
Bone-Shaking Drill Engine born. But on its first test run the Boneshaker went  
terribly awry, destroying several blocks of downtown Seattle and unearthing a  
subterranean vein of blight gas that turned anyone who breathed it into the  
living dead. Now it is sixteen years later, and a wall has been built to enclose  
the devastated and toxic city. Just beyond it lives Blue's widow, Briar Wilkes.  
Life is hard with a ruined reputation and a teenaged boy to support, but she and  
Ezekiel are managing. Until Ezekiel undertakes a secret crusade to rewrite  
history. His quest will take him under the wall and into a city teeming with  
ravenous undead, air pirates, criminal overlords, and heavily armed refugees.  
And only Briar can bring him out alive.',  
      '3.51',  
      '31,406',  
      '4,073',  
      [early,  
        days,  
        Civil,  
        War,  
        rumors,  
        gold,  
        frozen,  
        Klondike,  
        brought,  
        hordes,  
        newcomers,  
        Pacific,  
        Northwest,
```

Anxious,
compete,
Russian,
prospectors,
commissioned,
inventor,
Leviticus,
Blue,
create,
great,
machine,
Alaska,
ice,
Dr.,
Blue,
Incredible,
Bone,
Shaking,
Drill,
Engine,
born,
test,
run,
Boneshaker,
went,
terribly,
awry,
destroying,
blocks,
downtown,
Seattle,
unearthing,
subterranean,
vein,
blight,
gas,
turned,
breathed,
living,
dead,
sixteen,
years,
later,
wall,
built,
enclose,
devastated,

toxic,
city,
lives,
Blue,
widow,
Briar,
Wilkes,
Life,
hard,
ruined,
reputation,
teenaged,
boy,
support,
Ezekiel,
managing,
Ezekiel,
undertakes,
secret,
crusade,
rewrite,
history,
quest,
wall,
city,
teeming,
ravenous,
undead,
air,
pirates,
criminal,
overlords,
heavily,
armed,
refugees,
Briar,
bring,
alive])

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