

108 lines (77 sloc) | 4.06 KB

Raw Blame

```
1 #Online Coding Platform Rating Tracker
2 '''
3 Scrapes the Online Coding Platforms like Codechef, Codeforces, HackerEarth and SPOJ with the help of given URLs and
4 extracts the rating for a given user and prints the rating.
5 '''
6 try:
7     import bs4 as bs
8     import requests
9     # To print the results in a Tabular Format
10    from prettytable import PrettyTable
11    import Slack_Push_Notification as Slack
12
13    table = PrettyTable(['Coding Platform', 'Rating / Rank / Score'])
14
15
16    #URLs of Coding Platforms
17    cc_url = 'https://www.codechef.com/users/ramm_y2k'
18    cf_url = 'http://codeforces.com/profile/iamram'
19    he_url = 'https://www.hackerearth.com/users/pagelets/ram13/coding-data/'
20    spoj_url = 'https://www.spoj.com/users/iam_ram/'
21    ib_url = 'https://www.interviewbit.com/profile/i.am_ram/'
22    lc_url = 'https://leetcode.com/ram_babu/'
23
24    #Codeforces Scrapping
25    cf_response = requests.get(cf_url)
26    cf_html = cf_response.text
```

Assignment 1

```
26 cf_html = cf_response.text
27
28 cf_soup = bs.BeautifulSoup(cf_html, "lxml")
29
30 #Extracting the rating and the position
31 cf_rating = cf_soup.find('div', class_='info').find('ul').find('li').find('span').text
32 cf_position = cf_soup.find('div', class_='user-rank').find('span').text.strip()
33
34 table.add_row(['Codeforces', cf_rating + ' (' + cf_position + ')'])
35
36
37
38 #Codechef Scrapping
39 cc_response = requests.get(cc_url)
40 cc_html = cc_response.text
41
42 cc_soup = bs.BeautifulSoup(cc_html, "lxml")
43
44 #Extracting the rating and stars
45 cc_rating = cc_soup.find('div', class_='rating-number').text
46 cc_stars = cc_soup.find('div', class_='rating-star').text
47
48 table.add_row(['CodeChef', cc_rating + ' (' + cc_stars.strip() + ')'])
49
50
51
52 #HackerEarth Scrapping
53 he_response = requests.get(he_url)
54 he_html = he_response.text
```

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github.com/Ram-95/Python\_Applications/blob/master/Online\_Coding\_Platform\_Rating\_Tracker.py

Assignment 1

```
54 he_html = he_response.text
55
56 he_soup = bs.BeautifulSoup(he_html, "lxml")
57
58 #Extracting the Rating
59 he_rating = he_soup.find('a', class_='dark weight-700').text
60 table.add_row(['HackerEarth', he_rating])
61
62
63 #LeetCode Scrapping
64 lc_response = requests.get(lc_url)
65 lc_html = lc_response.text
66 lc_soup = bs.BeautifulSoup(lc_html, 'lxml')
67
68 lc_rating = lc_soup.findAll('span', class_='badge')[1].text.strip()
69 table.add_row(['LeetCode', lc_rating])
70
71 #SPOJ Scrapping
72 spoj_response = requests.get(spoj_url)
73 spoj_html = spoj_response.text
74 spoj_soup = bs.BeautifulSoup(spoj_html, "lxml")
75
76 temp = spoj_soup.find('div', class_='col-md-3')
77
78 '''Either of the below will work - The Rank is present in the third <p> tag'''
79 #spoj_rank = temp.find('p').find_next('p').find_next('p').text.strip()
80 spoj_rank = temp.select_one("p:nth-of-type(3)").text.strip()
81 table.add_row(['SPOJ', spoj_rank.split(':')[1]])
82
```

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github.com/Ram-95/Python\_Applications/blob/master/Online\_Coding\_Platform\_Rating\_Tracker.py

Assignment 1

```
82
83
84     #Interview Bit Scraping
85     ib_response = requests.get(ib_url)
86     ib_response = ib_response.text
87     ib_response = bs.BeautifulSoup(ib_response, 'lxml')
88     ib_response = ib_response.find('div', class_='user-stats').find('div', class_='stat pull-left')
89     ib_score = ib_response.find('div', class_='txt').text
90     table.add_row(['Interview Bit Score', ib_score])
91
92 except Exception as e:
93     print(f'Exception Occurred! \n{e}')
94 else:
95     print(table)
96
97
98     ''' Code to send a Slack Push Notification '''
99     msg = 'Codeforces Rating: {}\nCodechef Rating: {}\nHackerEarth: {}\nLeetCode - {}\nSPOJ - {}\nInterviewBit Score: {}'.format(cf_rating + ' ' + '(' + cf_position + ')',
100                                                                    cc_rating + ' ' + '(' + cc_stars + ')',
101                                                                    he_rating,
102                                                                    lc_rating,
103                                                                    spoj_rank,
104                                                                    ib_score)
105
106     Slack.slack_message(msg, __file__)
107
108     #print('\n**** Message Preview: **** \n{}'.format(msg))
```

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