

# IT-314 SOFTWARE ENGINEERING

## LAB-5 STATIC ANALYSIS

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**TOOL USED:**

**Pylint**

**Repository used:**

[https://github.com/mochatek/Dream11\\_Leaderboard](https://github.com/mochatek/Dream11_Leaderboard)

## File:

Dream11\_login.py

```
1  import pickle
2  from selenium import webdriver
3  import time
4
5  from selenium.webdriver.common.by import By
6  from selenium.webdriver.support.ui import WebDriverWait
7  from selenium.webdriver.support import expected_conditions as EC
8
9  chrome=webdriver.Chrome("C:\Program Files (x86)\Google\Chrome\Application\chromedriver.exe")
10
11  chrome.get("https://www.dream11.com")
12  try:
13      WebDriverWait(chrome, 100).until(EC.visibility_of_element_located((By.XPATH, "//*[@class='matchCardMainTitle_7b586 matchCardMainTitleDesktop_83a22']")))
14  finally:
15      pass
16
17  pickle.dump(chrome.get_cookies(), open("cookie.txt","wb"))
```

## **Analysis by pylint:**

\*\*\*\*\* Module test \*\*\*\*\*

test.py:8:0: C0304: Final newline missing (missing-final-newline)

test.py:4:0: C0411: standard import "import time" should be placed before "import selenium" (wrong-import-order)

test.py:6:0: C0411: standard import "import pickle" should be placed before "import selenium" (wrong-import-order)

test.py:8:1: C0413: Import "import time" should be placed at the top of the module (wrong-import-position)

test.py:6:1: C0413: Import "import pickle" should be placed at the top of the module (wrong-import-position)

test.py:10:14: W1401: Anomalous backslash in string: '\P'. String constant might be missing an r prefix. (anomalous-backslash-in-string)

test.py:13:41: W1508: Invalid escape sequence '\m' (invalid-escape-sequence)

test.py:17:29: C0326: No space allowed after bracket

pickle.dump(chrome.get\_cookies(), open("cookie.txt", "wb"))

^ (bad-whitespace)

test.py:2:0: C0412: Imports from package selenium are not grouped (ungrouped-imports)

test.py:3:0: C0412: Imports from package

selenium.webdriver.common.by are not grouped (ungrouped-imports)

test.py:4:0: C0412: Imports from package

selenium.webdriver.support.ui are not grouped (ungrouped-imports)

test.py:5:0: C0412: Imports from package selenium.webdriver.support are not grouped (ungrouped-imports)

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Your code has been rated at -1.11/10

## **Understanding:**

- missing-final-newline: The file should end with a newline character.
- wrong-import-position: The import statements should be at the top of the file, before any other code.
- ungrouped-imports: The import statements from the selenium package should be grouped together.
- bad-whitespace: There should be no space between the function name open and the opening parenthesis.

## **File:**

Dream11\_crawler.py

```

1 import pickle
2 from selenium import webdriver
3 from bs4 import BeautifulSoup as bs
4 import time
5
6 from selenium.webdriver.common.by import By
7 from selenium.webdriver.support.ui import WebDriverWait
8 from selenium.webdriver.support import expected_conditions as EC
9 import pandas as pd
10
11 chrome=webdriver.Chrome("C:\Program Files (x86)\Google\Chrome\Application\chromedriver.exe")
12
13 ##chrome.get("https://www.dream11.com")
14 ##try:
15 ##    WebDriverWait(chrome, 100).until(EC.visibility_of_element_located((By.XPATH, "//*[@class='matchCardMainTitle_7b586 matchCardMainTitleDesktop_83a22']")))
16 ##finally:
17 ##    pass
18 ##
19 ##pickle.dump(chrome.get_cookies(), open("cookie.txt","wb"))
20
21 team_list=[]
22 player_list=[]
23
24 cookies=pickle.load(open("cookie.txt","rb"))
25 chrome.get("https://www.dream11.com")
26 for cookie in cookies:
27     chrome.add_cookie(cookie)
28 chrome.get('https://www.dream11.com/cricket/leaderboard/ipl/1087/1231/305152108')# URL of leaderboard of your chosen contest goes here..
29
30 res=chrome.execute_script("return document.documentElement.outerHTML")
31 page=bs(res,'lxml')
32 time.sleep(2)
33 teams=page.findAll('div',attrs={'class':'leaderboard__players__user-information'})
34 for team in teams:
35     team_list.append(team.find('div').text)
36
37 print(len(team_list[1:]))
38
39 els=chrome.find_elements_by_xpath("//div[@class='leaderboard__players-container js--leaderboard__players-container']")
40 for el in els:
41     el.click()
42     time.sleep(2)
43     players=chrome.find_elements_by_xpath("//div[@class='fieldPlayerTitle_75d21 awayTeamPlayerTitle_95944' or @class='fieldPlayerTitle_75d21 homeTeamPlayerTitle_c0c14']")
44     for player in players:
45         player_list.append(player.text)
46
47
48 data=pd.DataFrame(zip(team_list[1:],player_list[0::11],player_list[1::11],player_list[2::11],player_list[3::11],player_list[4::11],
49                     player_list[5::11],player_list[6::11],player_list[7::11],player_list[8::11],player_list[9::11],player_list[10::11]),
50                  columns=["TEAM","P1-1","P1-2","P1-3","P1-4","P1-5","P1-6","P1-7","P1-8","P1-9","P1-10","P1-11"])
51 data.to_excel("DREAM11.xlsx")

```

## **Analysis by pylint:**

\*\*\*\*\* Module script

C: 9, 0: Invalid escape sequence '\P' (invalid-escape)  
C: 27, 0: Invalid escape sequence '\c' (invalid-escape)  
C: 43, 0: Redefining built-in 'zip' (redefined-builtin)  
C: 43, 0: Redefining built-in 'len' (redefined-builtin)  
C: 52, 0: Redefining built-in 'zip' (redefined-builtin)  
C: 52, 0: Redefining built-in 'len' (redefined-builtin)  
C: 52, 0: Black listed name "el" (blacklisted-name)  
C: 52, 0: Black listed name "data" (blacklisted-name)  
C: 52, 0: Black listed name "player" (blacklisted-name)  
C: 52, 0: Black listed name "players" (blacklisted-name)  
C: 43, 0: Line too long (106/100) (line-too-long)

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Your code has been rated at -4.05/10

## **Understanding of the error:**

- invalid-escape: the backslashes in the file paths should be escaped, either by using double backslashes or by using a raw string literal by prefixing the string with an 'r'.
- redefined-builtin the code is redefining the built-in functions zip and len with local variables. This can lead to confusion and unexpected behavior and should be avoided.

- blacklisted-name: the code is using variable names that are blacklisted by pylint, such as "data", "player", and "players". These names should be changed to something more descriptive and less likely to cause naming conflicts.
- line-too-long: the line is longer than the recommended maximum of 100 characters. This can make the code harder to read and maintain and should be addressed by either splitting the line or using more descriptive variable names.