IT-314 SOFTWARE ENGINEERING

LAB-5 STATIC ANALYSIS

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File:

Dream11_login.py

```python
import pickle
from selenium import webdriver
import time

from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

chrome=webdriver.Chrome("C:\Program Files (x86)\Google\Chrome\Application\chromedriver.exe")

chrome.get("https://www.dream11.com")
try:
    WebDriverWait(chrome, 100).until(EC.visibility_of_element_located((By.XPATH, "//*[@class='matchCardMainTitle_7b586 matchCardMainTitleDesktop_83a22']")))
finally:
    pass

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

```python
import pickle
from selenium import webdriver
from bs4 import BeautifulSoup as bs
import time

from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import pandas as pd

chrome=webdriver.Chrome("C:\Program Files (x86)\Google\Chrome\Application\chromedriver.exe")

##chrome.get("https://www.dream11.com")
##try:
##    WebDriverWait(chrome, 100).until(EC.visibility_of_element_located((By.XPATH, "//*[@class='matchCardMainTitle_7b586 matchCardMainTitleDesktop_83a22']")))
##finally:
##    pass
##
##pickle.dump(chrome.get_cookies(), open("cookie.txt","wb"))

team_list=[]
player_list=[]

cookies=pickle.load(open("cookie.txt","rb"))
chrome.get("https://www.dream11.com")
for cookie in cookies:
    chrome.add_cookie(cookie)
chrome.get('https://www.dream11.com/cricket/leaderboard/ipl/1087/1231/305152108')# URL of leaderboard of your chosen contest goes here..

res=chrome.execute_script("return document.documentElement.outerHTML")
page=bs(res,'lxml')
time.sleep(2)
teams=page.findAll('div',attrs={'class':'leaderboard__players__user-information'})
for team in teams:
    team_list.append(team.find('div').text)

print(len(team_list[1:]))

els=chrome.find_elements_by_xpath("//div[@class='leaderboard__players-container js--leaderboard__players-container']")
for el in els:
    el.click()
    time.sleep(2)
    players=chrome.find_elements_by_xpath("//div[@class='fieldPlayerTitle_75d21 awayTeamPlayerTitle_95944' or @class='fieldPlayerTitle_75d21 homeTeamPlayerTitle_c0c14']")
    for player in players:
        player_list.append(player.text)


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],
                    player_list[5::11],player_list[6::11],player_list[7::11],player_list[8::11],player_list[9::11],player_list[10::11]),
                columns=["TEAM","P1-1","P1-2","P1-3","P1-4","P1-5","P1-6","P1-7","P1-8","P1-9","P1-10","P1-11"])
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.

- <u>blacklisted-name</u>: 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.
- <u>line-too-long</u>: 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.