

Ethical Hacking and Vulnerability Assessment

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Practical 2

OBJECTIVE

- User profiling using word rate and error rate.

INTRODUCTION

A user profile is a collection of settings and information associated with a user. It contains critical information that is used to identify an individual, such as their name, age, portrait photograph and individual characteristics such as knowledge or expertise. Your profile is an overview of general information about yourself, and the skill sets that you possess. Creating a profile allows you to save all program opportunities in which you are interested, and to come back at a later time to actually submit an application.

Proposed Technique:

In this technique I have made python program which prompt the paragraph and ask user to enter the same paragraph. Accordingly, user will enter paragraph and after final hit of enter the statistics including total time taken, word rate(word/minute) and Accuracy will be displayed. This data also stores in the file along with the user's name.

- First function is counter function which prompt the paragraph and ask user to type same paragraph in console. It will calculate start time, end time and return the final time with paragraph entered by user.

```
def counter():  
    i = 0  
    print (prompt)  
    input(">> Press ENTER to begin << ")  
    begin_time = time()  
    inp = input("\n")  
    end_time = time()  
    final_time = (end_time - begin_time) / 60  
    return final_time, inp
```

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- Then we have word rate count function which take total time and total word entered by the user and return word rate in word per minute.

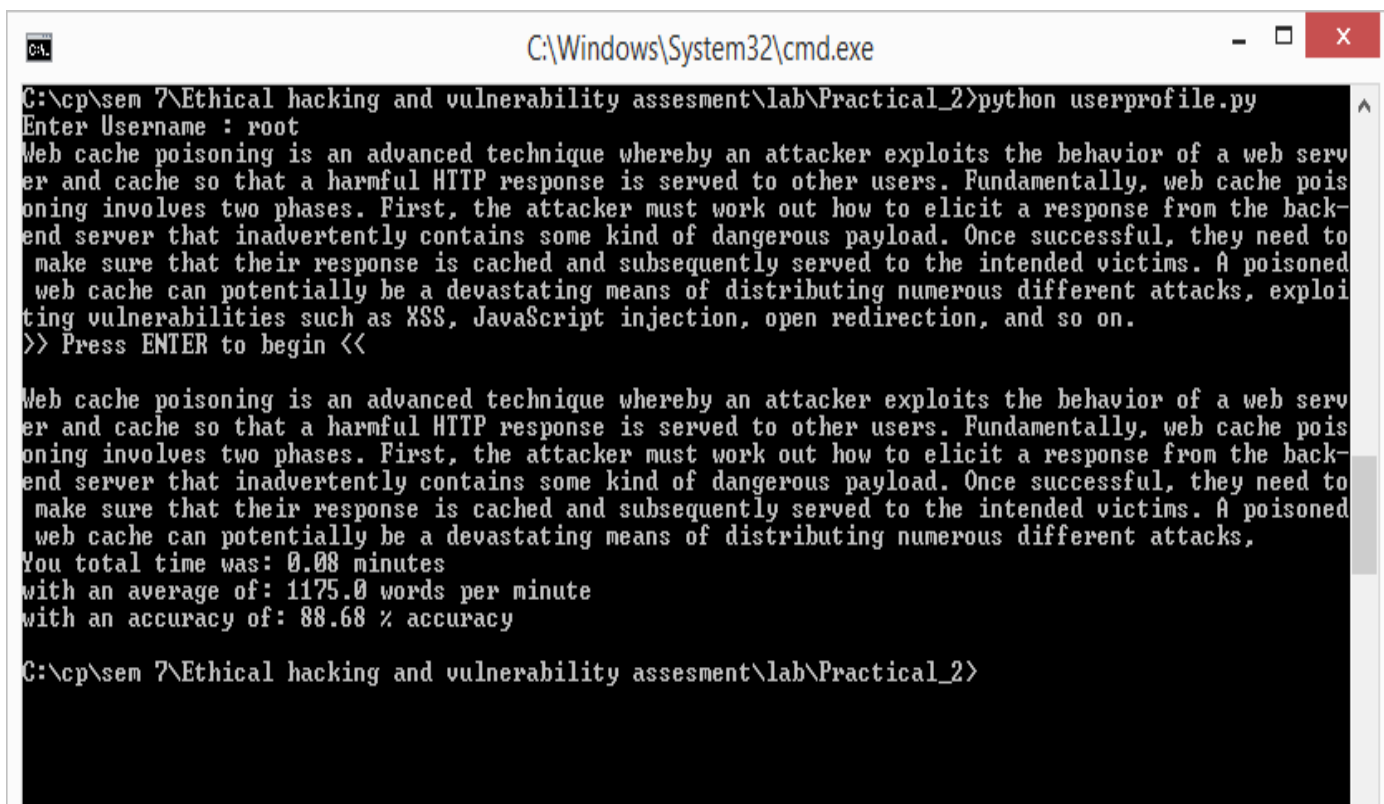
```
def wpm(time, line):  
    words = line.split()  
    word_length = len(words)  
    words_per_m = word_length / time  
    return words_per_m
```

- There is one more function word check. Which will calculate error rate and accuracy by comparing actual prompt paragraph and text entered by the user.

```
def wordcheck(inp):  
    prompts = prompt.split()  
    inputs = inp.split()  
    errorcount = 0  
  
    idx = 0  
    for inp in inputs:  
        if inp != prompts[idx]:  
            errorcount += 1  
            if inp == prompts[idx + 1]:  
                idx += 2  
            elif inp != prompts[idx - 1]:  
                idx += 1  
        else:  
            idx += 1  
  
    words_left = len(prompts) - len(inputs)  
    correct = float(len(prompts)) - float(errorcount)  
    percentage = (((float(correct) / float(len(prompts)))) - float(words_left) / float(len(prompts))) * 100)  
  
    return percentage
```

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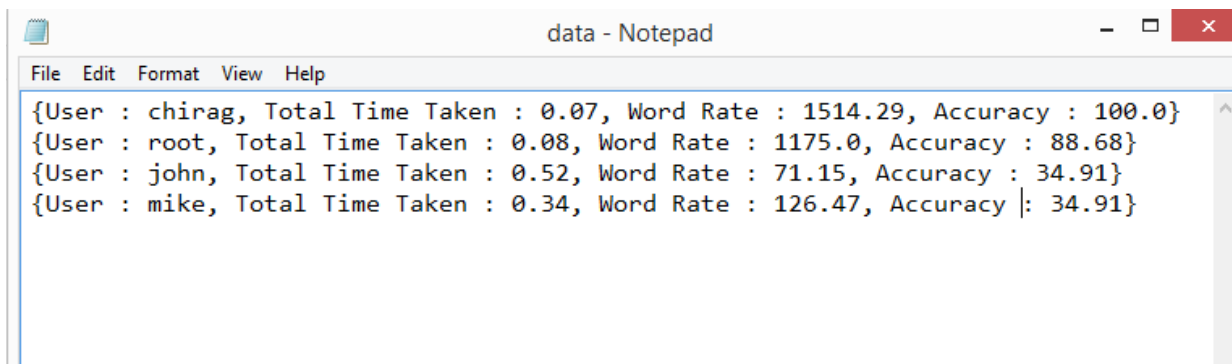
- After printing all the statistics on console, it will store this data in data.txt file.



```
C:\Windows\System32\cmd.exe
C:\cp\sem 7\Ethical hacking and vulnerability assesment\lab\Practical_2>python userprofile.py
Enter Username : root
Web cache poisoning is an advanced technique whereby an attacker exploits the behavior of a web serv
er and cache so that a harmful HTTP response is served to other users. Fundamentally, web cache pois
oning involves two phases. First, the attacker must work out how to elicit a response from the back-
end server that inadvertently contains some kind of dangerous payload. Once successful, they need to
make sure that their response is cached and subsequently served to the intended victims. A poisoned
web cache can potentially be a devastating means of distributing numerous different attacks, exploi
ting vulnerabilities such as XSS, JavaScript injection, open redirection, and so on.
>> Press ENTER to begin <<

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make sure that their response is cached and subsequently served to the intended victims. A poisoned
web cache can potentially be a devastating means of distributing numerous different attacks,
You total time was: 0.08 minutes
with an average of: 1175.0 words per minute
with an accuracy of: 88.68 % accuracy

C:\cp\sem 7\Ethical hacking and vulnerability assesment\lab\Practical_2>
```



```
data - Notepad
File Edit Format View Help
{User : chirag, Total Time Taken : 0.07, Word Rate : 1514.29, Accuracy : 100.0}
{User : root, Total Time Taken : 0.08, Word Rate : 1175.0, Accuracy : 88.68}
{User : john, Total Time Taken : 0.52, Word Rate : 71.15, Accuracy : 34.91}
{User : mike, Total Time Taken : 0.34, Word Rate : 126.47, Accuracy : 34.91}
```

CONCLUSION

User profiling is very useful. Profiles are valuable to ensure that what you are building or designing meets a user need. They are a reminder to your team and to stakeholders of who you are designing for. User profiles are one part of the toolkit that you can use to communicate your research.