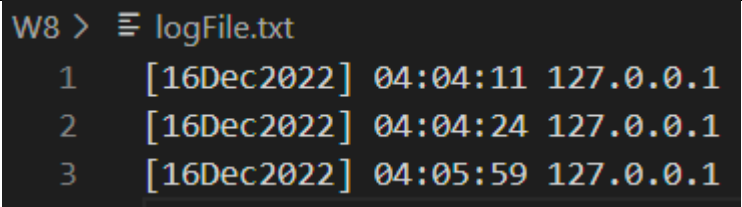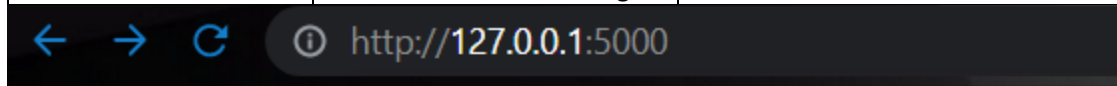**Test Note:** Commas in input indicate the next input attempt for that value.

Test Case: Logging Failed Logins

Input	Expected Output	Actual Output
Username = , Floatinghair, Floatinghair, Floatinghair Password = , , abd, aA1!aaaaaaaa	The log file should have 3 failed login entries. An "Invalid Credentials" message should be displayed. I should be redirected back to the Login Page with each failed attempt. The final successful attempt should take me to the Home Page.	W8 > ≡ logFile.txt 1 [16Dec2022] 04:04:11 127.0.0.1 2 [16Dec2022] 04:04:24 127.0.0.1 3 [16Dec2022] 04:05:59 127.0.0.1 See below screenshots for Login Page, and network logs.

← → C ⓘ http://**127.0.0.1**:5000
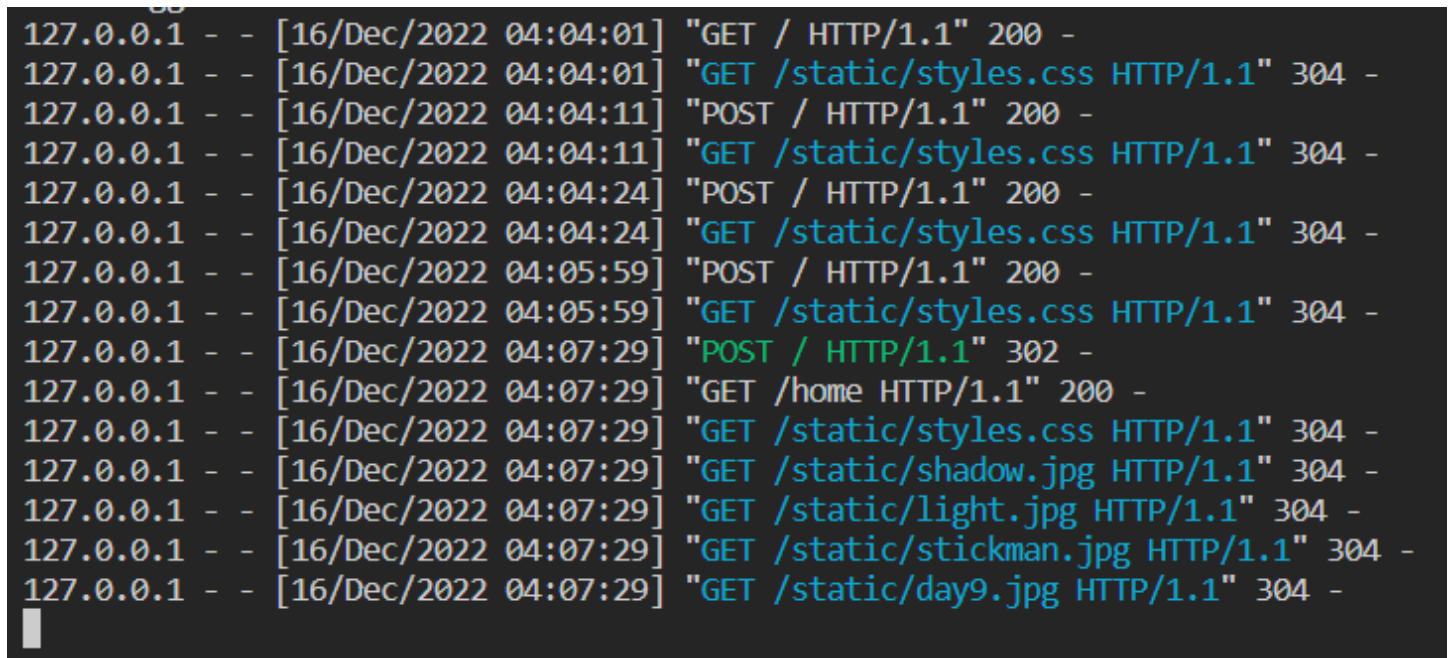
Kittens versus Ninja Stars(Shurikens) Login

Username Floatinghair   Password [   ] [Login]
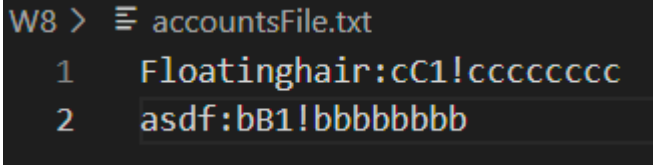[Register]

**Invalid Credentials**

16Dec2022 04:03:55

```
127.0.0.1 - - [16/Dec/2022 04:04:01] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:04:01] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:04:11] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:04:11] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:04:24] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:04:24] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:05:59] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:05:59] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "POST / HTTP/1.1" 302 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /home HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /static/shadow.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /static/light.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /static/stickman.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:07:29] "GET /static/day9.jpg HTTP/1.1" 304 -
```

Note: This test case made me realize I had to catch the case if either the password or username was None or an empty string.I also had to find the remote_addr attribute of request to get the client IP. Current time needed to be called again for each log attempt or it would be whenever the page is loaded.

Test Case: Update Password

| Input	Expected Output	Actual Output
Click new "Update Password" button on Home Page Current Password = , a, aA1!aaaaaaaa, aA1!aaaaaaaa New Password = , , password, cC1!cccccccc Confirm Password = , , password, cC1!cccccccc	Update Password button should redirect me to the new Update Password Page. The Update Password Page should redirect me three times with an error. The final correct attempt should update the accountsFile.txt and redirect me to the Home Page.	W8 > ≡ accountsFile.txt 1 Floatinghair:cC1!cccccccc 2 asdf:bB1!bbbbbbbb Additional screenshots below.
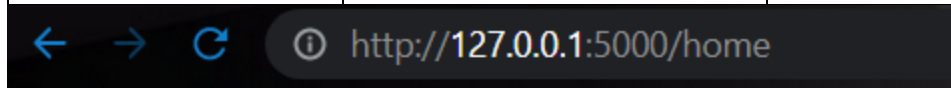
← → C ⓘ http://127.0.0.1:5000/home

Home Page | Ninja Stars Page | Kittens Page | Update Password

Kittens versus Ninja Stars(Shurikens)

Hello! This page is to introduce you to the metaphor of Kittens vs Shurikens to stand in fo
negative emotions. Refer to the links above to learn why each of them are good examples

Let's say a person is in a dark room with an overhead light giving a vision radius of five f
ninja star and *feel* hurt or have a kitten cuddle up and *feel* amazing. The person cannot alw

Above figure showcasing the new button.
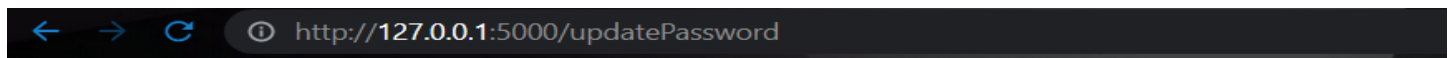
← → C ⓘ http://127.0.0.1:5000/updatePassword

Home Page | Ninja Stars Page | Kittens Page | Update Password

Kittens versus Ninja Stars(Shurikens) Change Password

As a reminder, Your password must contain:

- more than 12 characters.
- a special character.
- a lower case character.
- an upper case character.
- a number.

Current Password [_____] New Password [_____] Confirm Password [_____] [Change Password]

You must enter your current password.
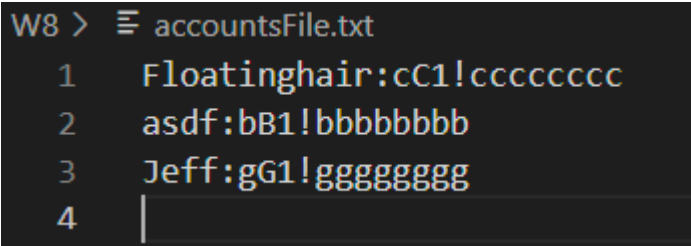
16Dec2022 04:20:39

Notes: Common passwords were checked for on an individual character level instead of by line. I added a \n in the case to correctly check by line.

```
127.0.0.1 - - [16/Dec/2022 04:48:17] "GET /home HTTP/1.1" 302 -
127.0.0.1 - - [16/Dec/2022 04:48:17] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:48:17] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:24] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:48:24] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:33] "POST / HTTP/1.1" 302 -
127.0.0.1 - - [16/Dec/2022 04:48:33] "GET /home HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:48:33] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:33] "GET /static/shadow.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:34] "GET /static/light.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:34] "GET /static/stickman.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:34] "GET /static/day9.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:48:35] "GET /updatePassword HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:48:35] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:49:11] "POST /updatePassword HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:49:11] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:49:15] "POST /updatePassword HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:49:15] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:49:22] "POST /updatePassword HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:49:22] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:49:37] "POST /updatePassword HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:49:37] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:50:02] "POST /updatePassword HTTP/1.1" 302 -
127.0.0.1 - - [16/Dec/2022 04:50:02] "GET /home HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 04:50:02] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:50:02] "GET /static/shadow.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:50:03] "GET /static/light.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:50:03] "GET /static/stickman.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 04:50:03] "GET /static/day9.jpg HTTP/1.1" 304 -
```

Test Case: Registration Checks for Common Password

Input	Expected Output	Actual Output
| Username = Jeff, Jeff<br><br>Password = password, baseball, gG1!gggggggg<br><br>Confirmed Password = password, baseball, gG1!gggggggg | The first inputs should error to not use a common password. The next set of inputs should correctly create the account. | ```
W8 >  ≡ accountsFile.txt
   1    Floatinghair:cC1!cccccccc
   2    asdf:bB1!bbbbbbbb
   3    Jeff:gG1!gggggggg
   4    |
``` |

Kittens versus Ninja Stars(Shurikens) Registration

Your password must contain:

- more than 12 characters.
- a special character.
- a lower case character.
- an upper case character.
- a number.

Username [   ] Password [   ] Confirm Password [   ] [create]

You must not use a common password.

16Dec2022 05:04:27

```
127.0.0.1 - - [16/Dec/2022 05:04:34] "POST /registration HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 05:04:34] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:05:21] "POST /registration HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 05:05:21] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "POST /registration HTTP/1.1" 302 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /home HTTP/1.1" 200 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /static/shadow.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /static/light.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /static/stickman.jpg HTTP/1.1" 304 -
127.0.0.1 - - [16/Dec/2022 05:06:13] "GET /static/day9.jpg HTTP/1.1" 304 -
```

Pylint:

```
PS C:\Users\MHR1440\Documents\impo\UMGC\SDEV300\W8> & "C:/Program Files/WindowsApps/Py
thonSoftwareFo c:/Users/MHR1440/Documents/impo/UMG> pylint c:/Users/MHR1440/Documents/
impo/UMGC/SDEV300/W8/RodriguezMichaelLab8.py

-------------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

Pylint Notes: I had a previous issue with changing a global Boolean variable without a Pylint warning. I have since created a login object to track whether the user is logged in or not.

Decryption Portion:

a. - .... / ... -.. . ...- / ...-- ----- ----- / -.-. .-.. .- ... ... / .... .- ... / ... --- -- . / ... - .-. .- -. --. . / .-. . --.- ..- . ... - ... .-.-.-

Dots and Dashes are pretty synonymous with morse code. I used the morse code decrypter to get the plain text of:

"this sdev 300 class has some strange requests."

b. U28gdGhpcyBpcyBiYXNlNjQuIE5vdyBJIGtub3cu

I recognized this encryption style being all clumped together with no special characters. I used the Base64 decoder to get the plain text of:

"So this is base64. Now I know."

c. --- Psuwb Ysm ----

W oa gc qzsjsf. Bc cbs qcizr dcggwpzm twuifs hvwg cih.

--- Sbr Ysm ---

Caesar cipher was one of the mentioned encryptions, and the encryptions did not look that different with spaced out one or two letter combinations. I decrypted it with a 14 shift to get:

--- Begin Key ----

I am so clever. No one could possibly figure this out.

--- End Key ---