

T1A3 - Terminal App

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Say Hello to:

FRIENDSTER

Description

I created a terminal app that checks on the app user's wellbeing and provides the user positive affirmations.

How does it work?

User is prompted to register
or existing user can simply
log in.

MAIN MENU

1 - Register

2 - Login

Choose An Option:

Feature of the app is that user passwords are encrypted.

userInfo.txt

You, 1 hour ago | 1 author (You)

```
1 jonas 03ac674216f3e15c761ee1a5e255f067953623c8b388b4459e13f978d7c846f4
2 benz 03ac674216f3e15c761ee1a5e255f067953623c8b388b4459e13f978d7c846f4
3 1 eb1e33e8a81b697b75855af6bfcdbcbf7cbbde9f94962ceaec1ed8af21f5a50f
4 n 6b51d431df5d7f141cbececcf79edf3dd861c3b4069f0b11661a3eefacbbba918
5 a 6b86b273ff34fce19d6b804eff5a3f574ada4eaa22f1d49c01e52ddb7875b4b
6 z 594e519ae499312b29433b7dd8a97ff068defcba9755b6d5d00e84c524d67b06
7 c 2e7d2c03a9507ae265ecf5b5356885a53393a2029d241394997265a1a25aefc6
8 , d03502c43d74a30b936740a9517dc4ea2b2ad7168caa0a774cefe793ce0b33e7
9 baba e75a6cd43a16c2f31d1a3c17700af64d3658a380c49d65b20cc75b1f7c0e001b
10 qw d876d59095f13054c120f77202c5378aa25d7787d4adf70980dbb3f2a7125ac1
11 asd f4bf9f7fcbcdaba0392f108c59d8f4a38b3838efb64877380171b54475c2ade8
12 zx b2ab54fd83e5770a4f755bd8d556a8b0815ad072db3cd9bae4a86827b995edee
13 az 9c0ada37bf74aeefae949fdcf90db0cf6eaf90192eff67d65887771f0585e055
14 ac f45de51cdef30991551e41e882dd7b5404799648a0a00753f44fc966e6153fc1
15 123 a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3
16 cv 2e7d2c03a9507ae265ecf5b5356885a53393a2029d241394997265a1a25aefc6
17 i 0bfe935e70c321c7ca3afc75ce0d0ca2f98b5422e008bb31c00c6d7f1f1c0ad6
18 bajboana 8e35c2cd3bf6641bdb0e2050b76932cbb2e6034a0ddacc1d9bea82a6ba57f7cf
19 junaaid 556f0ae1769fa6600e874b4c9cc16e74e595f86df457839357328142cd0b5ff5
20 qwert 556f0ae1769fa6600e874b4c9cc16e74e595f86df457839357328142cd0b5ff5
21 2345 38083c7ee9121e17401883566a148aa5c2e2d55dc53bc4a94a026517dbff3c6b
22 rose a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3
23 paul a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3
24
```

```
1 from stdiomask import getpass
2 import hashlib
```

Stdiomask is used to secure the password entry into **** and getpass to read the entry.

Import hashlib is used to encryp the data.

```
223 def hashPassword(password):
224     return hashlib.sha256(str.encode(password)).hexdigest()
225
226 def checkPasswordHash(password, hash):
227     return hashPassword(password) == hash
```

```
Registered!  
How are you today?  
Choose from the following: Happy, Sad, Angry, Depressed, Anxious  
Please enter how your are feeling: █
```

A function is used to get user input and to call on the corresponding positive affirmation from an external file.

```
def ask():  
    initialQuestion = input("How are you today?\nChoose from the following: Happy, Sad, Angry, Depressed, Anxious\nPlease enter how your are feeling: ")  
    sanitizeVariable = initialQuestion.lower().strip()  
  
    if sanitizeVariable == happy or sad or angry or depressed or anxious:  
        quote = random.choice(happy or sad or angry or depressed or anxious)  
        print("\nThank you for your entry. Here is a positive affirmation for you:")  
        print(Style.BRIGHT + Back.YELLOW + Fore.GREEN + f"{quote}")  
        print("Have a great day!\n")  
        return sanitizeVariable  
  
    else:  
        print(Style.BRIGHT + Back.YELLOW + Fore.RED + "***Invalid Entry**")  
        print(Style.BRIGHT + Back.YELLOW + Fore.RED + "Please enter a valid response.")  
        ask()
```


User mood is captured so that user has insights into their last entry.

```
247 v def write_file(user_mood):
248     """function to write the user mood data back to the file"""
249
250     file = open('usermood.txt', 'w') # open text file in write mode
251
252     # iterate through each value in our dictionary
253 v     for user in user_mood:
254         file.write(user + " " + " ".join(user_mood[user]) + "\n") # write the data in specific format
255
256     file.close()
257
258
259 v def read_file():
260     """function to read the previous mood of all the users and add them to the dictionary"""
261
262     file = open('usermood.txt', 'r') # open the file in read mode
263     user_mood = {} # dictionary to store the user mood for their last entries if any
264     # iterate though all the lines in the file
265 v     for line in file:
266         temp = line.split() # split the lines on the spacing
267         user_mood[temp[0]] = temp[1:] # add the user mood plus their previous entry number in the dictionary
268
269     file.close() # close the file
270     return user_mood # return the data
271
```

Below screenshot shows the positive affirmation being displayed to the user.

```
Registered!  
How are you today?  
Choose from the following: Happy, Sad, Angry, Depressed, Anxious  
Please enter how your are feeling: happy  
  
Thank you for your entry. Here is a positive affirmation for you:  
I am filled with energy and excitement.  
Have a great day!
```

```
Thank you for your entry. Here is a positive affirmation for you:  
I allow the flow of positive energy to effortlessly move through me.  
Have a great day!
```

```
Congrats you used our application 10 times
```

```
Here are the stats of your 10 entries:
```

```
happy: 9  
sad: 1
```

Previous user entries are also collated up to 10 entries to provide the user their stats after every 10th use of Friendster.

```
mood = ask()

count_mood = {} # dictionary to store the mood stats of this specific user

# if the application has been used 10 times, we calculate the stats
if app_used + 1 >= 10:
    print("Congrats you used our application 10 times")
    for prev_mood in user_mood[userName][1:]:
        if prev_mood in count_mood:
            count_mood[prev_mood] += 1
        else:
            count_mood[prev_mood] = 1
    if mood in count_mood:
        count_mood[mood] += 1
    else:
        count_mood[mood] = 1

    print("\nHere are the stats of your 10 entries:\n")
    for myMood in count_mood:
        print(f"{myMood}: {count_mood[myMood]}")

if len(mood_lst) == 0:
    user_mood[userName] = mood_lst
    user_mood[userName].append(str(app_used + 1))
else:
    user_mood[userName][0] = str(app_used + 1)
    user_mood[userName].append(mood)

write_file(user_mood)
```