import re

import csv

email\_regex = re.compile(r'([A-Za-z0-9]+[.-\_])\*[A-Za-z0-9]+@[A-Za-z0-9-]+(\.[A-Z|a-z]{2,})+')

pwd\_regex = re.compile(r'^(?=.\*?[A-Z])(?=.\*?[a-z])(?=.\*?[0-9])(?=.\*?[#?!@$%^&\*-]).{5,}$')

def isValidEmail(email):

if re.fullmatch(email\_regex, email):

return True

else:

return False

def isValidPwd(pwd):

if len(pwd) < 16 and len(pwd) > 5 and re.fullmatch(pwd\_regex, pwd):

return True

else:

return False

def register():

print('\nRegister New User\n')

email = input('EmailId: ')

if isValidEmail(email):

password = input('password: ')

if isValidPwd(password):

write\_file(email, password)

print('\nUser Registered Successfully')

else:

print('\nInvalid Password')

else:

print('\nInvalid Username')

def login():

email = input('EmailId: ')

auth = False

if isValidEmail(email):

password = input('password: ')

if isValidPwd(password):

if search\_file(email, password):

print ('\nUser Logged In Successfully...')

else:

print('\nUser Not Found!')

register()

else:

print('\nInvalid Password')

else:

print('\nInvalid Username')

def forget\_pwd():

email = input('EmailId: ')

if isValidEmail(email):

if search\_pwd(email):

print ('\nUser Logged In Successfully')

else:

print('\nUser Not Found !!!')

register()

else:

print('\nInvalid Username')

def search\_file(email, pwd , mode = 'r', encoding = 'UTF8', newline = ''):

with open('users.csv', mode, encoding = encoding, newline = newline) as f:

reader = csv.reader(f)

for row in reader:

if email == row[0] and pwd == row[1]:

return True

return False

def search\_pwd(email, mode = 'r', encoding = 'UTF8', newline = ''):

with open('users.csv', mode, encoding = encoding, newline = newline) as f:

reader = csv.reader(f)

for row in reader:

if email == row[0]:

print('\nPassword for '+ email + ' is '+ row[1])

return True

return False

def write\_file(email, pwd , mode = 'a', encoding = 'UTF8', newline = ''):

with open('users.csv', mode, encoding = encoding, newline = newline) as f:

writer = csv.writer(f)

writer.writerow([email, pwd])

if \_\_name\_\_ == "\_\_main\_\_":

try:

while True:

print(''' \nPlease select an option \n

1. Register

2. Login

3. Forget Password

''')

option = int(input())

if option == 1:

register()

elif option == 2:

login()

elif option == 3:

forget\_pwd()

else:

print("Invalid Option")

except:

print("An exception occurred")