#!/usr/bin/env python

import argparse

from getpass import getpass

import hashlib

import pyperclip

from rich import print as printc

import utils.add

import utils.retrieve

import utils.generate

from utils.dbconfig import dbconfig

parser = argparse.ArgumentParser(description='Description')

parser.add\_argument('option', help='(a)dd / (e)xtract / (g)enerate')

parser.add\_argument("-s", "--name", help="Site name")

parser.add\_argument("-u", "--url", help="Site URL")

parser.add\_argument("-e", "--email", help="Email")

parser.add\_argument("-l", "--login", help="Username")

parser.add\_argument("--length", help="Length of the password to generate",type=int)

parser.add\_argument("-c", "--copy", action='store\_true', help='Copy password to clipboard')

args = parser.parse\_args()

def inputAndValidateMasterPassword():

mp = getpass("MASTER PASSWORD: ")

hashed\_mp = hashlib.sha256(mp.encode()).hexdigest()

db = dbconfig()

cursor = db.cursor()

query = "SELECT \* FROM pm.secrets"

cursor.execute(query)

result = cursor.fetchall()[0]

if hashed\_mp != result[0]:

printc("[red][!] WRONG! [/red]")

return None

return [mp,result[1]]

def main():

if args.option in ["add","a"]:

if args.name == None or args.url == None or args.login == None:

if args.name == None:

printc("[red][!][/red] Site Name (-s) required ")

if args.url == None:

printc("[red][!][/red] Site URL (-u) required ")

if args.login == None:

printc("[red][!][/red] Site Login (-l) required ")

return

if args.email == None:

args.email = ""

res = inputAndValidateMasterPassword()

if res is not None:

utils.add.addEntry(res[0],res[1],args.name,args.url,args.email,args.login)

if args.option in ["extract","e"]:

# if args.name == None and args.url == None and args.email == None and args.login == None:

# # retrieve all

# printc("[red][!][/red] Please enter at least one search field (sitename/url/email/username)")

# return

res = inputAndValidateMasterPassword()

search = {}

if args.name is not None:

search["sitename"] = args.name

if args.url is not None:

search["siteurl"] = args.url

if args.email is not None:

search["email"] = args.email

if args.login is not None:

search["username"] = args.login

if res is not None:

utils.retrieve.retrieveEntries(res[0],res[1],search,decryptPassword = args.copy)

if args.option in ["generate","g"]:

if args.length == None:

printc("[red][+][/red] Specify length of the password to generate (--length)")

return

password = utils.generate.generatePassword(args.length)

pyperclip.copy(password)

printc("[green][+][/green] Password generated and copied to clipboard")

main()