import json

def register\_user(file\_name):

attempt\_count = 1

user\_name = input("Enter username: ")

user\_password = input("Enter password: ")

confirm\_password = input("Confirm password: ")

while user\_password != confirm\_password and attempt\_count < 3:

print("Password mismatch")

user\_password = input("Enter password: ")

confirm\_password = input("Confirm password: ")

attempt\_count += 1

if attempt\_count == 3 and user\_password != confirm\_password:

print("Too many wrong attempts. Registration failed.")

return

user\_mobile = input("Enter mobile number: ")

user\_details = {

user\_name: {

'password': user\_password,

'mobile': user\_mobile

}

}

try:

try:

with open(file\_name, 'r') as file:

users\_data = json.load(file)

except (FileNotFoundError, json.JSONDecodeError):

users\_data = {}

users\_data.update(user\_details)

with open(file\_name, 'w') as file:

json.dump(users\_data, file, indent=4)

print("Registration successful!")

except Exception as error:

print(f"An error occurred: {error}")

def login\_user(file\_name):

user\_name = input("Enter username: ")

user\_password = input("Enter password: ")

try:

with open(file\_name) as file:

users\_data = json.load(file)

except Exception as error:

print(f"An error occurred: {error}")

return

if user\_name in users\_data and users\_data[user\_name]['password'] == user\_password:

print(f"Welcome {user\_name}!")

print(f"Mobile number: {users\_data[user\_name]['mobile']}")

update\_choice = input("Do you want to update your mobile number? (yes/no): ").strip().lower()

if update\_choice == 'yes':

update\_mobile(file\_name, user\_name)

else:

print("Incorrect credentials. Access denied.")

def update\_mobile(file\_name, user\_name):

new\_mobile = input("Enter new mobile number: ")

try:

with open(file\_name, 'r') as file:

users\_data = json.load(file)

if user\_name in users\_data:

users\_data[user\_name]['mobile'] = new\_mobile

with open(file\_name, 'w') as file:

json.dump(users\_data, file, indent=4)

print("Mobile number updated successfully!")

else:

print("User not found.")

except Exception as error:

print(f"An error occurred: {error}")

def main():

file\_name = "user\_data.json"

while True:

print("1. Log In\n2. Register\n3. Exit")

try:

user\_choice = int(input("Enter your choice: "))

if user\_choice == 1:

login\_user(file\_name)

elif user\_choice == 2:

register\_user(file\_name)

elif user\_choice == 3:

print("Exiting...")

break

else:

print("Invalid choice, please try again.")

except ValueError:

print("Invalid input, please enter a number.")

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

main()