



SWallet

“Your one and only [Smart Wallet](#)”

How to use **SWallet**:

Installation Steps:

- The platform is deployed using the famous “Linuxdeployqt” repository, it combines all what the app needs to run without any shared library* or the need to download “QT Creator” on any Linux device.

* Sometimes the app might require “libxcb-cursor0”, Easily installed using

sudo apt install libxcb-cursor0

Extract zip file : Executables to get Server and Client Folder

Launch Steps “Server Side” (**Runs First**):

1. Open Server Folder and Run the “AppRun” Which would Launch The Server Side of SWallet and should be greeted with a successful connection to SQLite database.

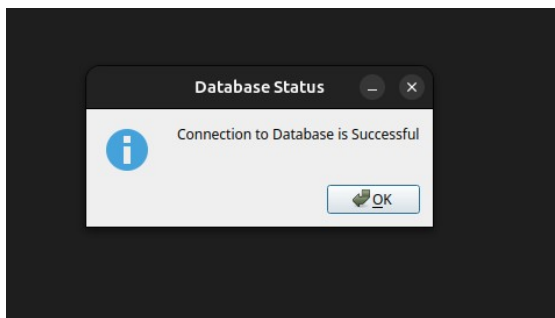


Figure 1: DataBase Connection Success

2. then, the main window for the server side of SWallet Where you can see the clients, their information and transaction history

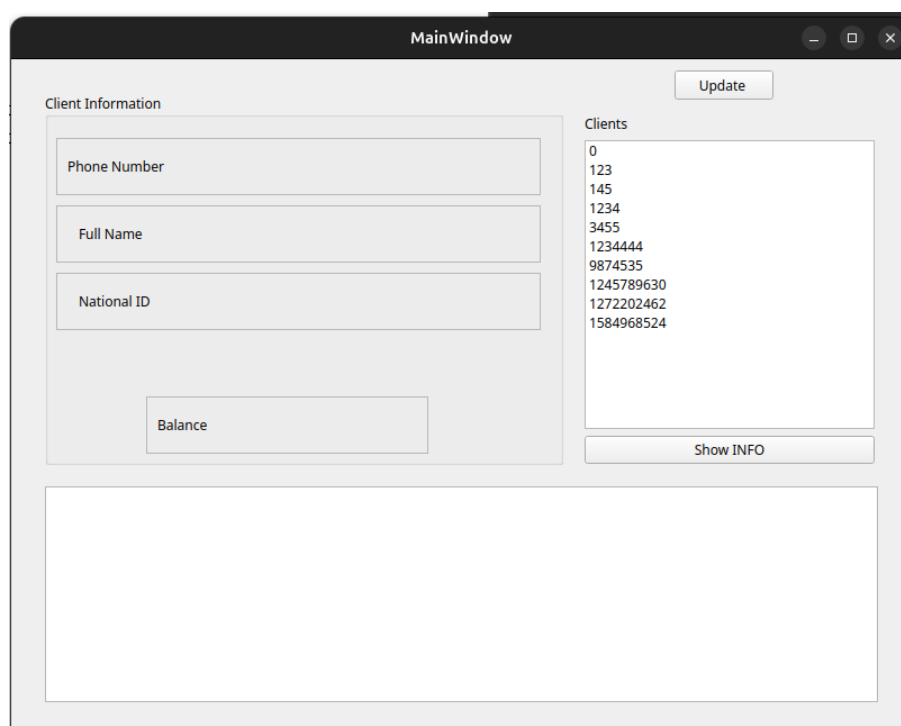


Figure 2: Server Main Window

3. In order to update the clients list you need to click the update button in the top right corner with each click the list gets updated directly from the database.
4. To retrieve a client information and transaction history, Simply, Select the client from client list in right corner and click “Show INFO” button.

The screenshot shows a window titled "MainWindow" with a dark title bar. Inside, there's a "Client Information" section on the left with three input fields: "Phone Number" (123), "Full Name" (123), and "National ID" (987). Below these is a "Balance" field showing 4759. On the right, there's a "Clients" list with a scrollable area containing numbers: 0, 123 (highlighted), 145, 1234, 3455, 1234444, 9874535, 1245789630, 1272202462, and 1584968524. Above the list is an "Update" button, and below it is a "Show INFO" button. At the bottom, there's a table with transaction history.

	ID	Phone_Number	Type	Amount	Time
7	7	123	Deposit	123	Mon May 6 15:09:45 2024
8	8	123	Withdraw	123	Mon May 6 15:10:10 2024
9	9	123	Deposit	123	Mon May 6 16:16:31 2024
10	12	123	Deposit	123	Mon May 6 18:28:18 2024
11	13	123	Deposit	5000	Mon May 6 15:37:23 2024
12	14	123	Withdraw	500	Mon May 6 15:37:47 2024

Figure 3: Example of Retrieving Client information and Transaction

Launch Steps “Client Side”:

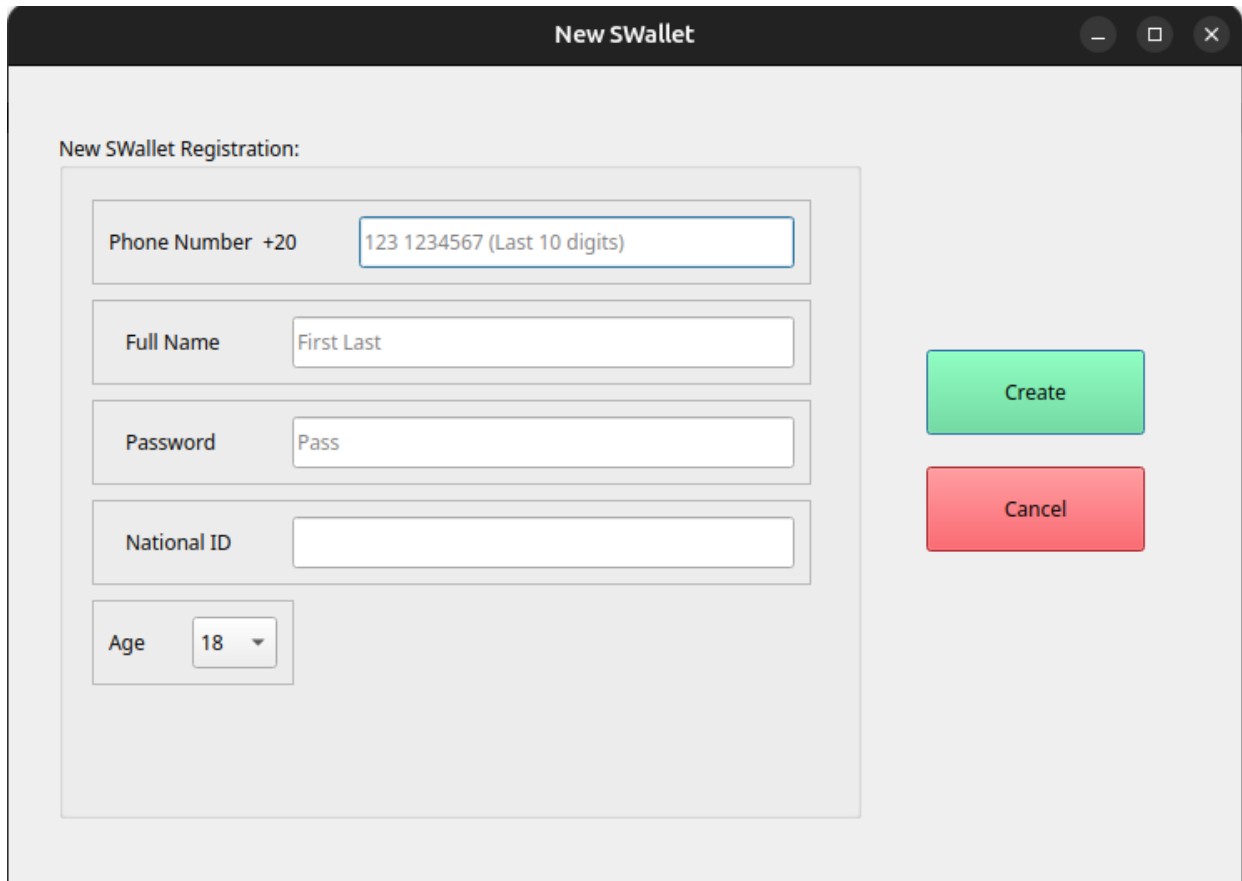
1. Open Client folder and Run “AppRun” and Welcome SWallet screen should pop up where you can either choose to Sign in or Create a new SWallet.

The screenshot shows a window titled "SWallet" with a dark title bar. Inside, there's a login form on the left with two input fields: "Phone Number" and "Password". To the right of these fields are two buttons: a green "Sign in" button and a blue "New SWallet" button.

Figure 4: Client Main Window

2. Upon Clicking New SWallet, a new Sign-up Window would pop-up to fill with wallet information.

Note: You can sign-in with a unique 10 digit Phone Number, other Info has no limits.



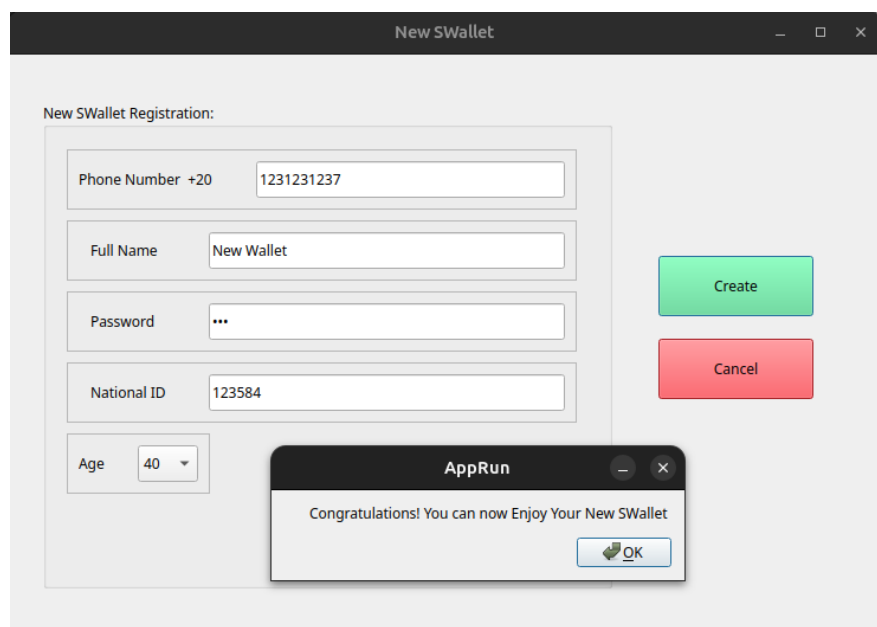
The image shows a window titled "New SWallet" with a registration form. The form is titled "New SWallet Registration:" and contains the following fields:

- Phone Number +20: 123 1234567 (Last 10 digits)
- Full Name: First Last
- Password: Pass
- National ID: (empty)
- Age: 18 (dropdown menu)

There are two buttons on the right side of the form: a green "Create" button and a red "Cancel" button.

Figure 5: New Wallet Registration Window

3. After clicking Create, the wallet either gets created if the information provided and get a dialogue confirming the creation of the new wallet otherwise you get something went wrong message.



The image shows the "New SWallet" registration window with the following filled-in information:

- Phone Number +20: 1231231237
- Full Name: New Wallet
- Password: ...
- National ID: 123584
- Age: 40 (dropdown menu)

The "Create" button is highlighted in green. A small dialog box titled "AppRun" is overlaid on the bottom right of the registration window, displaying the message: "Congratulations! You can now Enjoy Your New SWallet" with an "OK" button.

Figure 6: Successful Creation of SWallet

New SWallet Registration:

Phone Number +20 1234567891

Full Name TESTSSS

Password ...

National ID 1235843548534

Age 18

Create

Cancel

AppRun

Something Went Wrong!

OK

Figure 7: Phone Number Already exists

- Following the Creation, The client can sign-in and open his Wallet.

Home Page

SWallet Information

Phone Number 123

Full Name 123

National ID 987

Balance 4759

Amount 0

Deposit

Withdraw

5. The user can choose to either deposit or withdraw money to his wallet balance through writing the desired amount above the deposit and withdraw buttons.

*Note: The server accepts all the deposits directly and the changes is reflected in both client transaction history and balance.

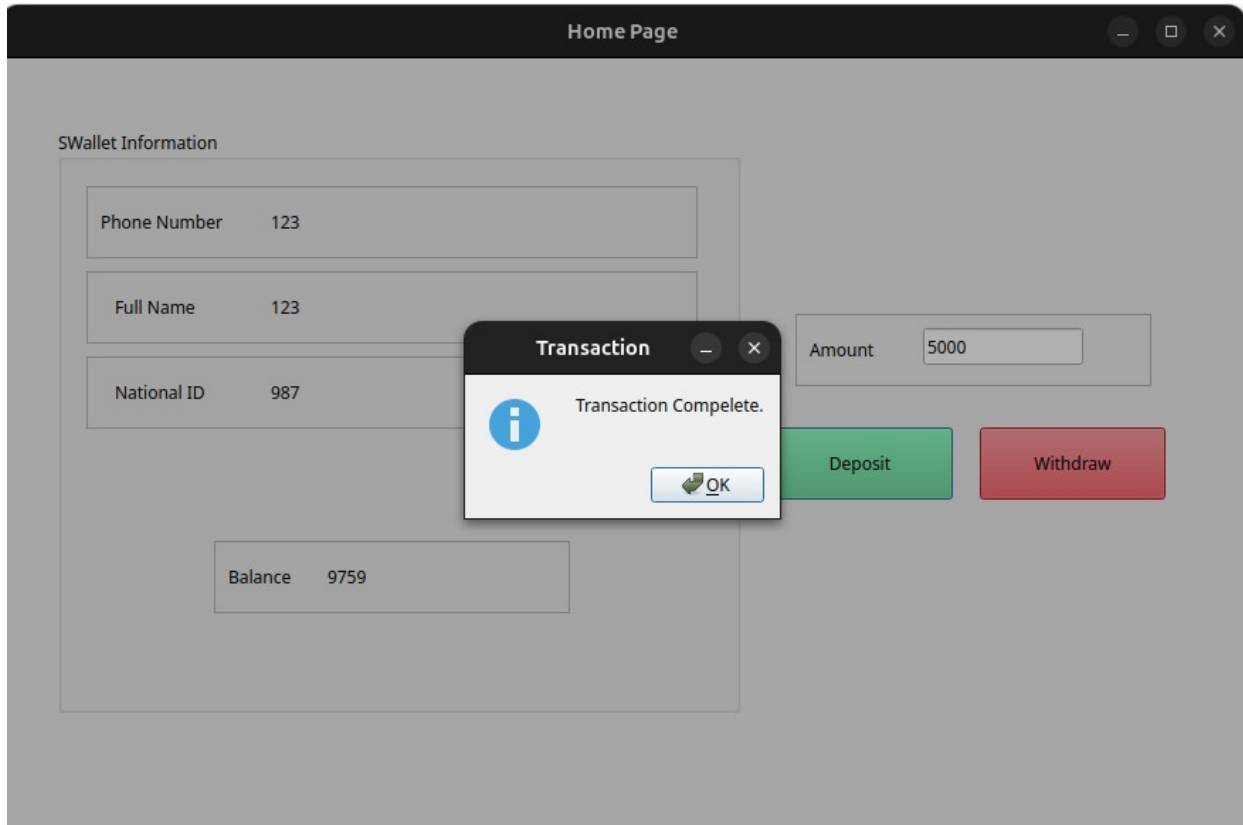


Figure 8: User making a deposit

6. User can't withdraw money more than his balance.

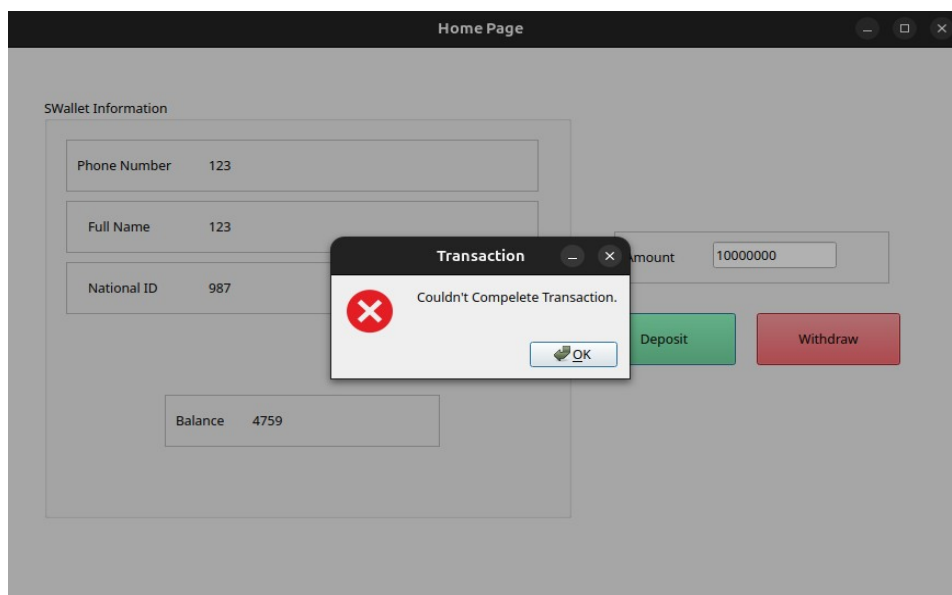


Figure 9: User withdrawing more than his account balance

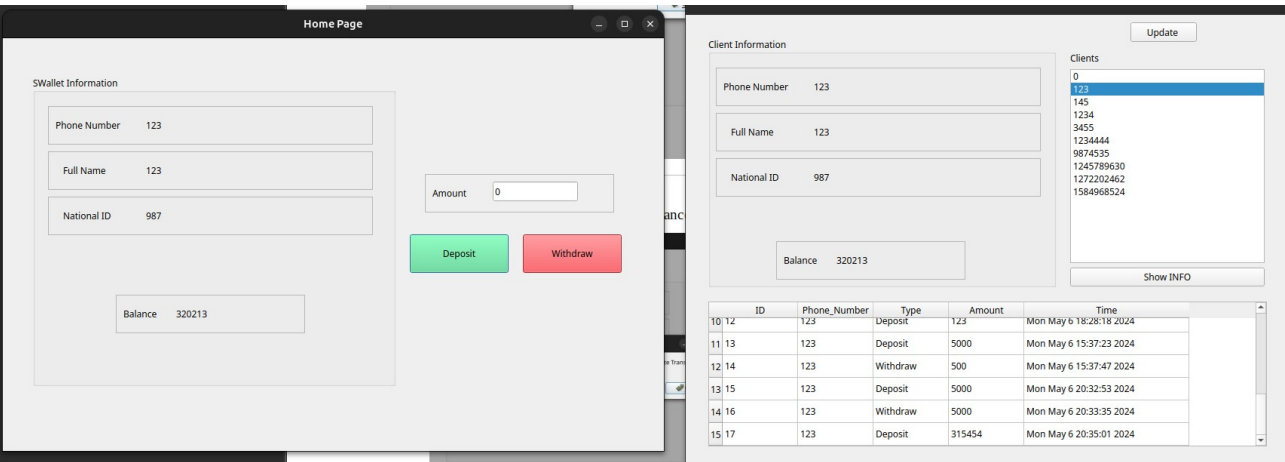


Figure 10: Updates in server side