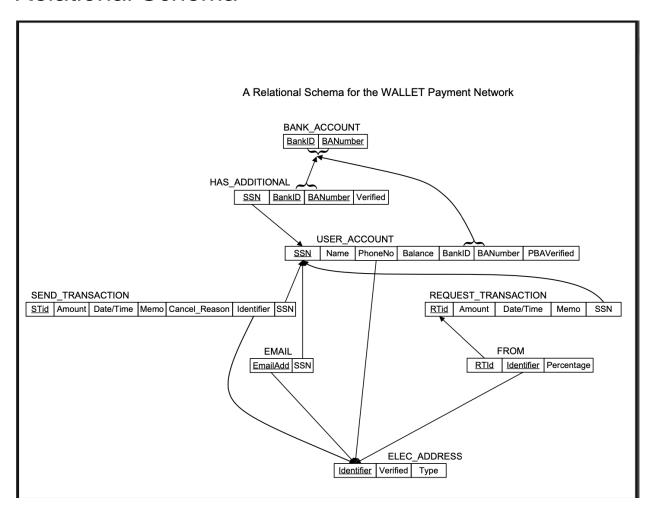
Data Management Systems Design NJIT CS 631-003 Fall 2021 WALLET Project - Deliverable #3

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Goal Phase

Design and develop a working CLI application of the WALLET payment system.

Relational Schema



Description of Implementation

The app is a command-line app, where the GUI is a selection of enumerated menus that the user can make selections from. Built in Python.

Login Screen and Main Menu

```
wallet-project $ python3 app.py
Welcome to WALLET!
Would you like to login or register?
Type 'login' or 'register': login
Enter your SSN: 546337752
Enter your phone number: 2015556666
User 546337752 with 2015556666 has signed in
None
[MAIN MENU]
[1] account
[2] send_money
[3] request_money
[4] statements
[5] search_transactions
[0] sign_out
Selection:
```

Account Menu

```
[ACCOUNT MENU]
[1] account_info
[2] modify_name
[3] add_email_address
[4] remove_email_address
[5] update_phone_number
[6] add_bank_account
[7] remove_bank_account
[0] main_menu
Selection:
```

Statements Menu

Send Money

```
[MAIN MENU]
[1] account
[2] send_money
[3] request_money
[4] statements
[5] search_transactions
[0] sign_out
Selection: 2

Enter the phone number of the recipient: 510382152
How much money would you like to send? $500
Add a memo: merry xmas
Success
```

Snapshot of the 'user_account' database

ssn	name	phoneno	balance	bankid	banumber	pbaverified
 610886428 Jacob	Stein 8	329339766	431.44	6078274839	6387799209	1
196699163 Cody	Brown 2	233454670	3453.09	4531116371	8455601031	1
920759210 Jessi	.ca Hendricks 7	755685076	3089.85	3407562823	2827223729	1
191199043 Briar	Moore 3	323276394	8073.32	4195004658	2442153869	1
623111815 Scott	: Baker 7	47066155	189.41	1527933752	6873210018	1
595070908 Ruth	Hoffman 9	73377933	8180.35	5674061254	9080753609	1
764702584 Danie	el George 4	93347148	8298.97	1870133553	9829184489	1
215839303 David	l Moody 9	97786176	2114.71	1879525389	3647741353	1
699446883 Larry	Morales 5	10382152	1146.50	4090941126	8088036982	1
546337752 ricky	martin 2	2015556666	2552.42	4463111377	4892573628	1

SQL Commands

The table-building commands can be found in `wallet.sql` and the fake data commands were generated by `create_db.py` and `fake_data.sql`.

Using the app

The app can be setup with postgres and initialized by running `wallet.sql` first, then `fake_data.sql` to populate the database with fake data. To begin the app, run `python3 app.py`.