

| WALLE - ET

Cristian Santiago Lopez Cadena -
20222020027

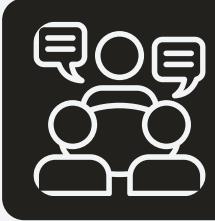
Carlos Alberto Barriga Gamez -
20222020179



Business Model

The application's business model consists of providing a platform for online monetary transactions, without the need for long lines and tedious waits like in bank branches, and a simple logic that facilitates this process for all users.

User Histories



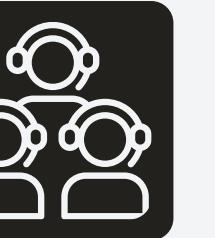
Role CTO

- As CTO, I want to keep a record of the users who enter the application. I want to know their first and last name, cell phone number, email address, and ID, to know who is using our service.
- As CTO I want to offer a simple way for users to access their digital wallet, so that everyone can access the service easily and immediately.
- As CTO I want to be able to send money between different wallets so that users can make fast and secure transfers within the ecosystem.
- As CTO I want users to be able to link a debit card to their wallet so they can make payments easily.
- As CTO, I want to know the user's place of residence and their ID to ensure that all legal requirements are met.

To reach the development of user stories with the role of CTO, we carry out research on the functionalities of other applications similar to ours. Once the research is done, we make a selection of the basic functionalities.



User Histories



Role Customer

- As a user, I want to be able to withdraw money from my wallet at a physical location so that I can access my cash quickly and conveniently when I need it.
- As a user, I want to be able to load money into my account in different ways so that I can have flexibility and ease when adding funds.
- As a user, I want to be able to request money from a friend who also has the app so that I can receive the money quickly and easily without complications.
- As a user, I want to be able to see how much money I currently have and a history of all the transactions made so that I can keep track and monitor my finances.

For these stories, we interviewed potential end users of the app, asking them the question: What features do you consider essential in a digital wallet? From the answers obtained, we chose the most relevant ones, and those that were within our development possibilities.



List of application processes

- The user can register, and after registering, he can log in to the application.
- The user will have the possibility of adding funds to his account, or to another person's account.
- The user will be able to withdraw part or all of his money.
- The user will have the possibility of requesting funds from another user also registered in the application.
- The application will give the user access to an extract of the movements made with his account.
- The application will allow a virtual wallet to be linked to a user.
- The application will allow a credit card to be linked to a wallet
- The application will save any transaction and subsequently send it to the movements of the accounts that participated in the transaction.



Application components

Wallet:

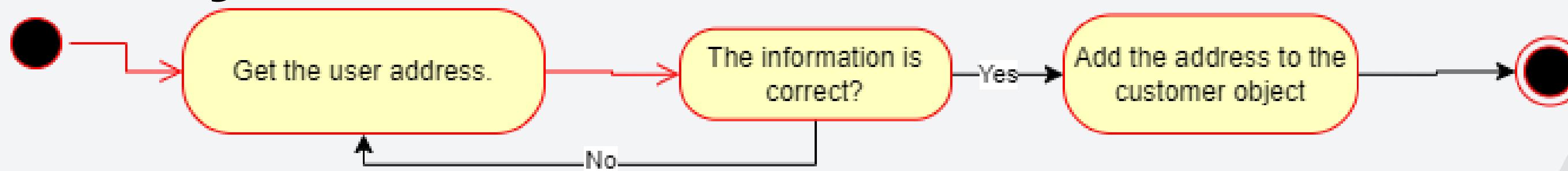
The wallet component is responsible for having all the necessary information and executing the main transactions.

User:

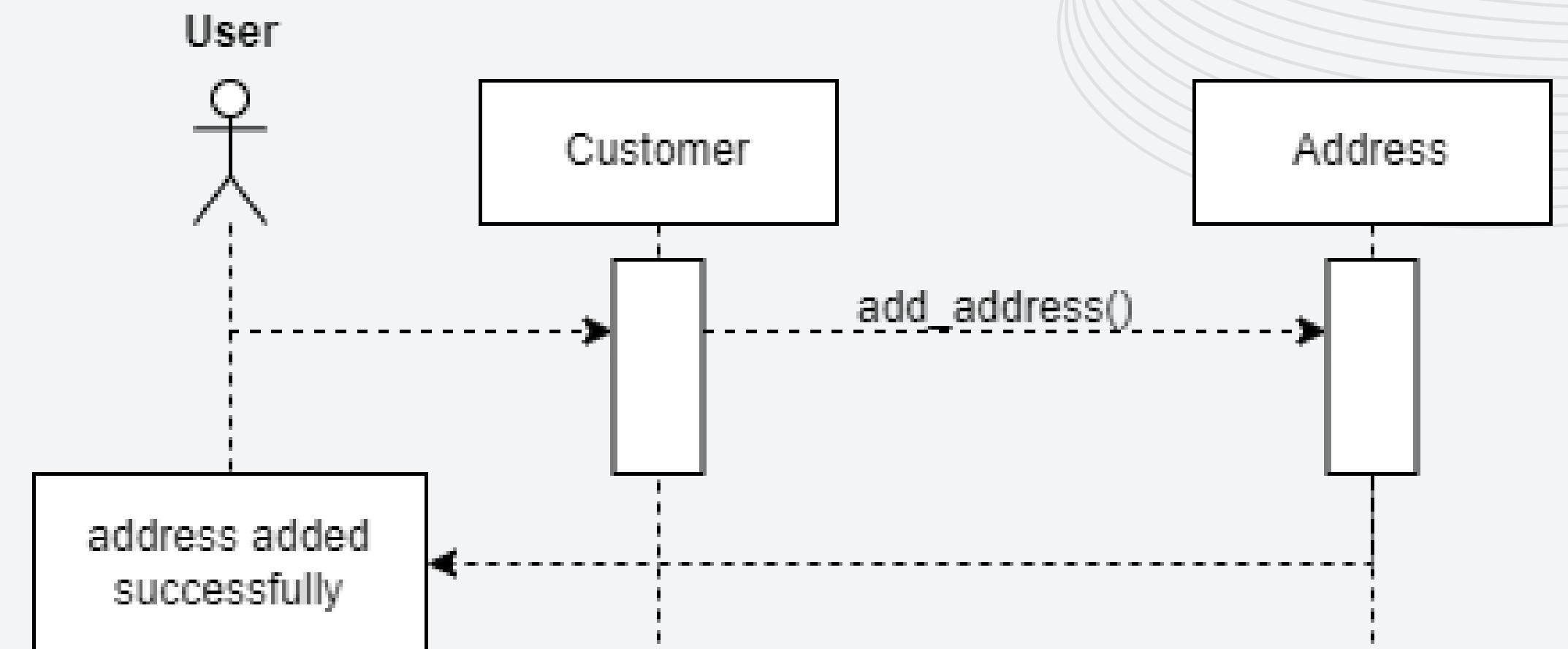
The user component is responsible for managing and storing all information regarding users.

Activity & Sequence diagrams

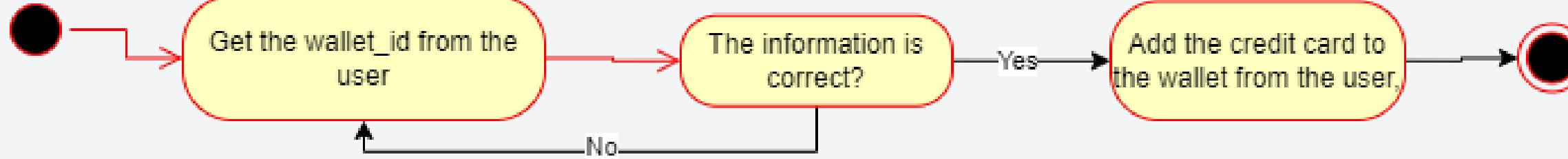
Activity: add address



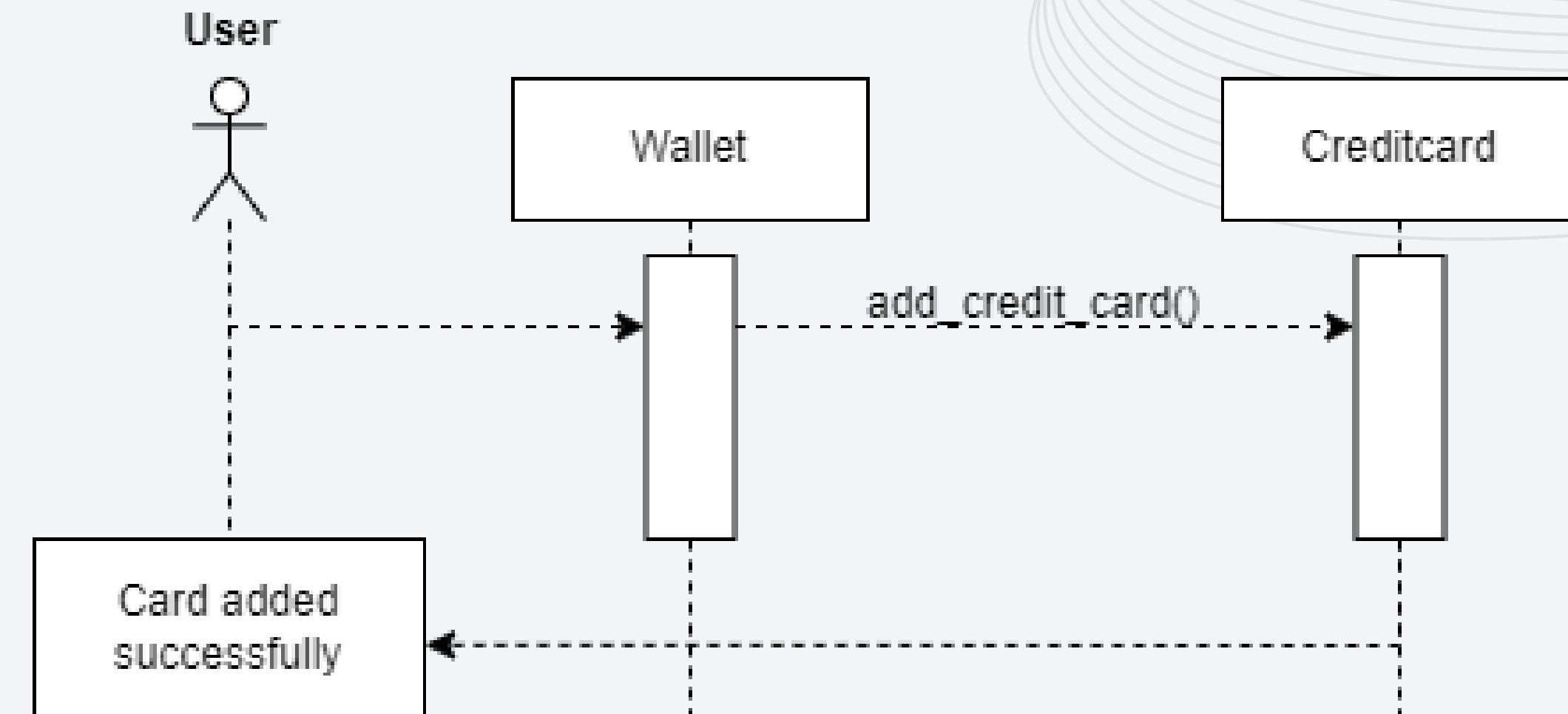
Sequence: add address



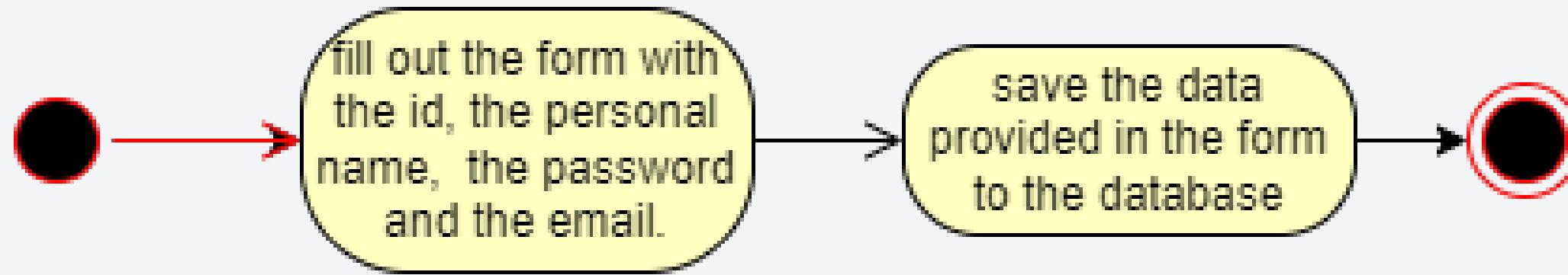
Activity: add credit card



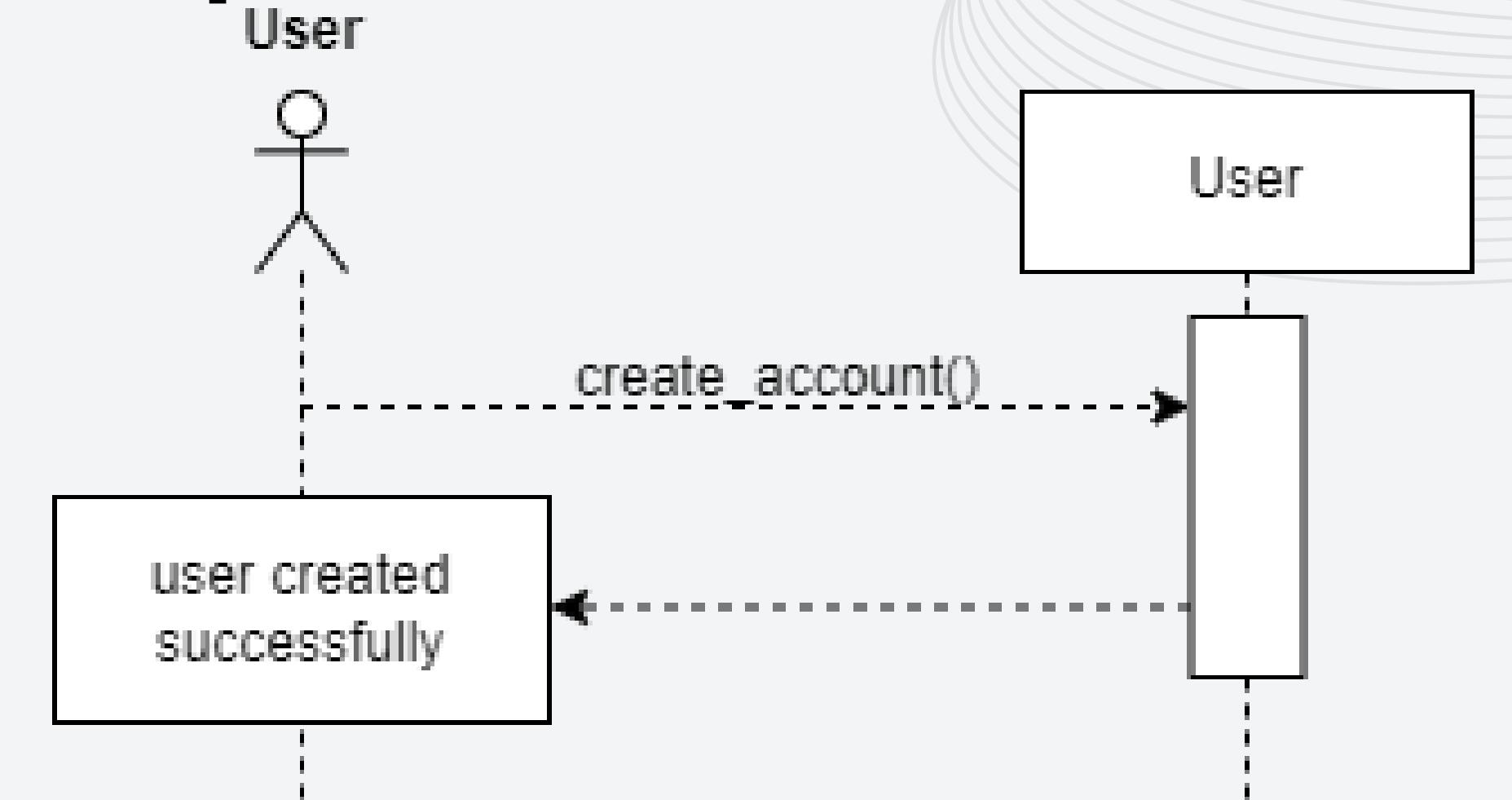
Sequence: add credit card



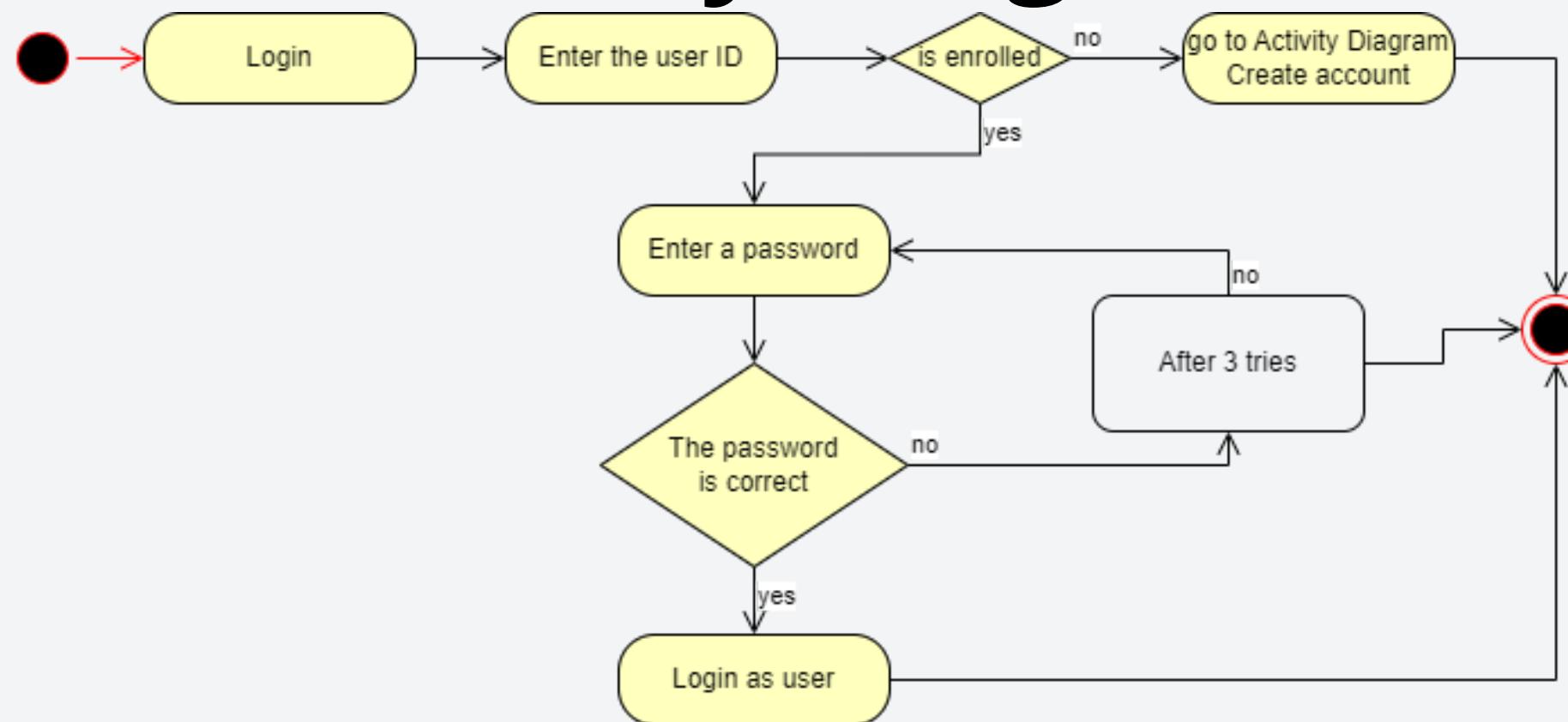
Activity: Create account



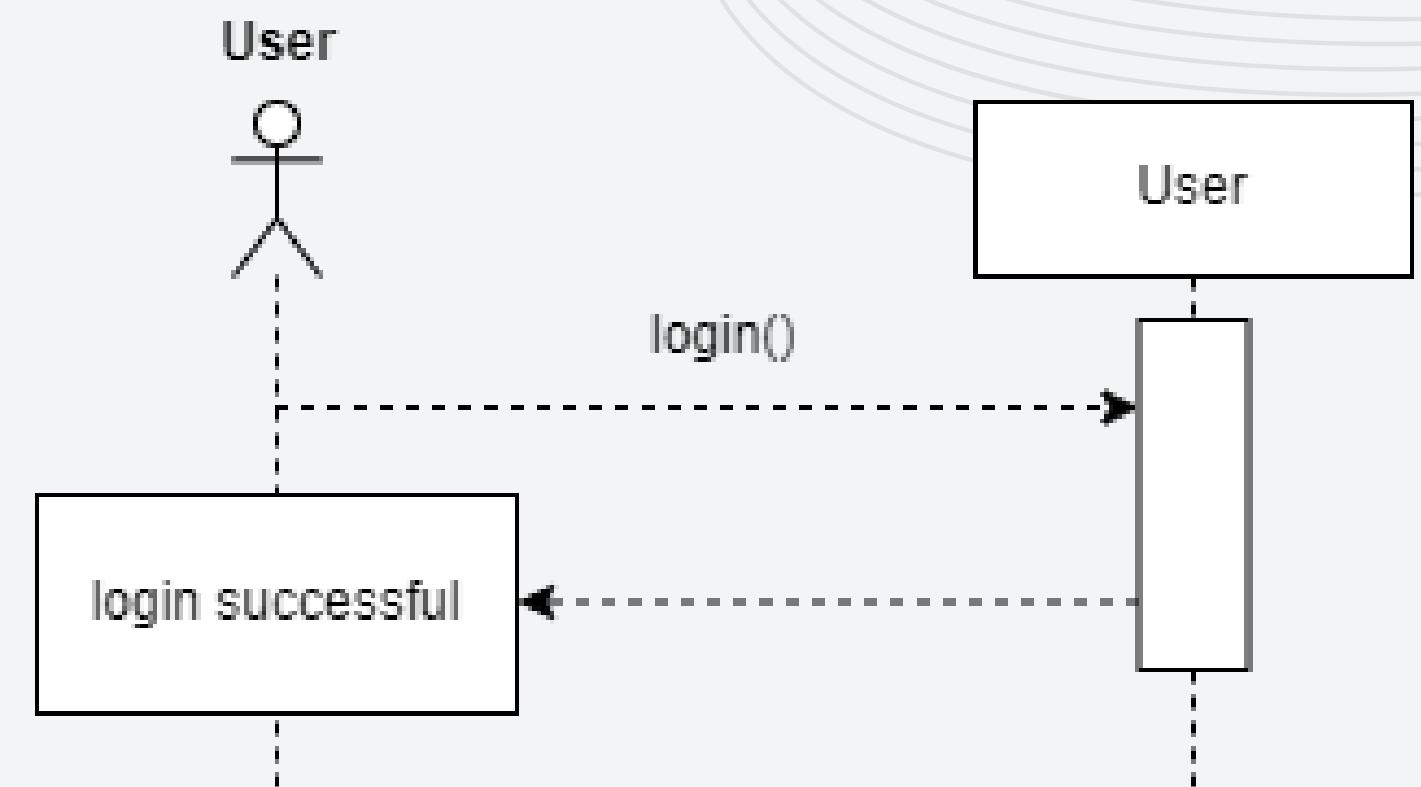
Sequence: Create account



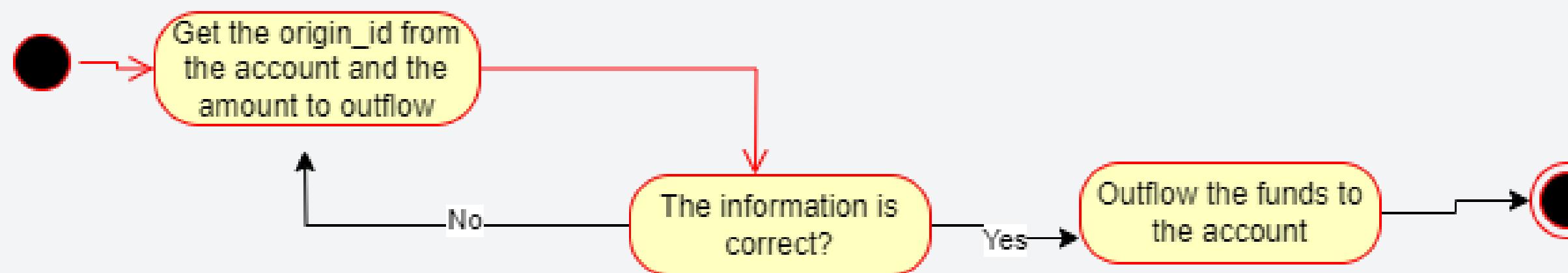
Activity: Login



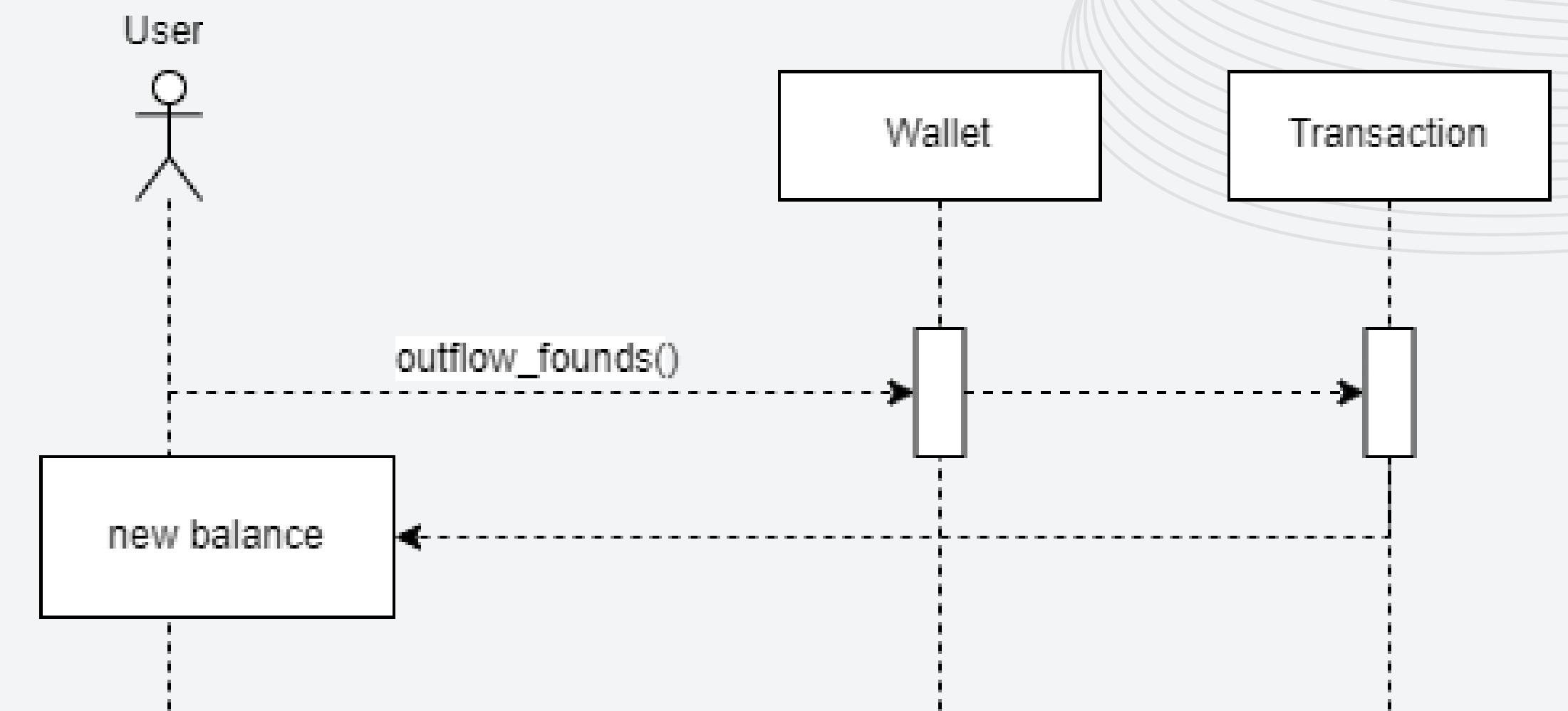
Sequence: Login



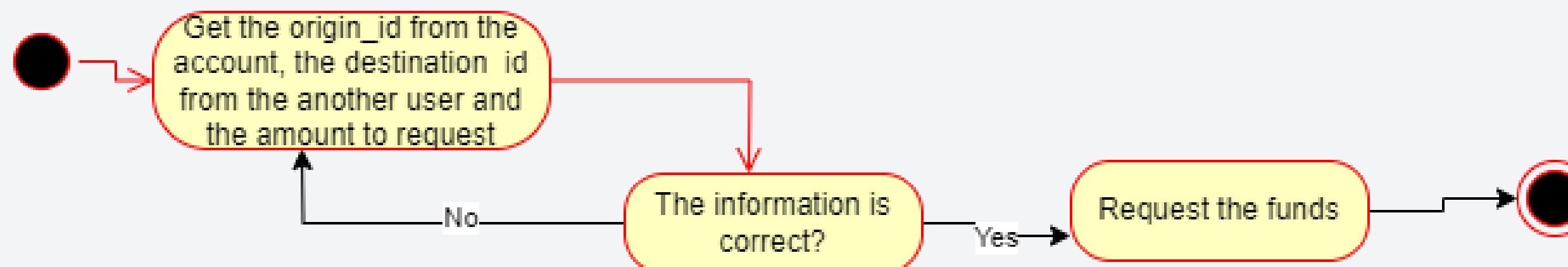
Activity: Outflow Founds



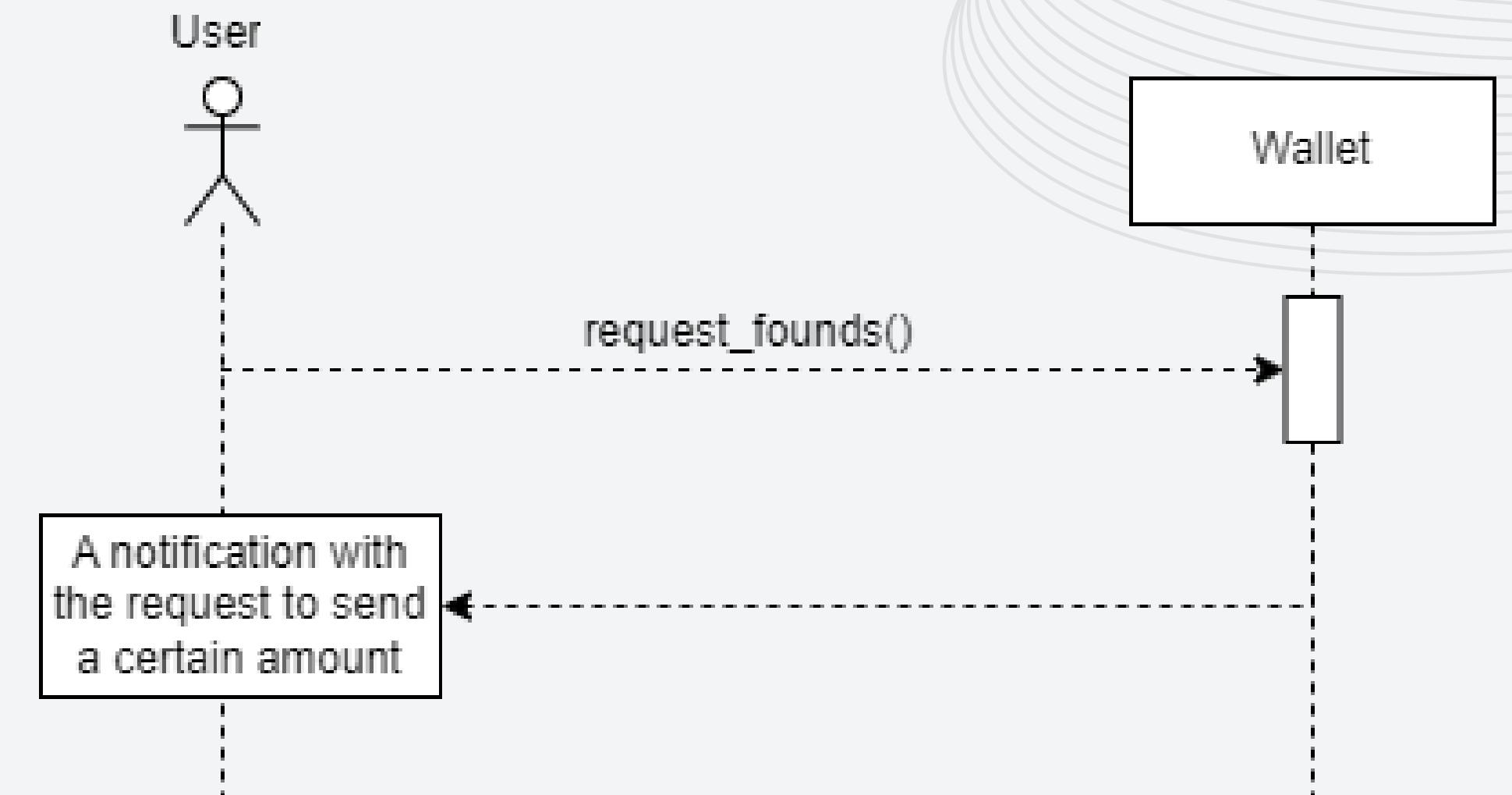
Sequence: Outflow Founds



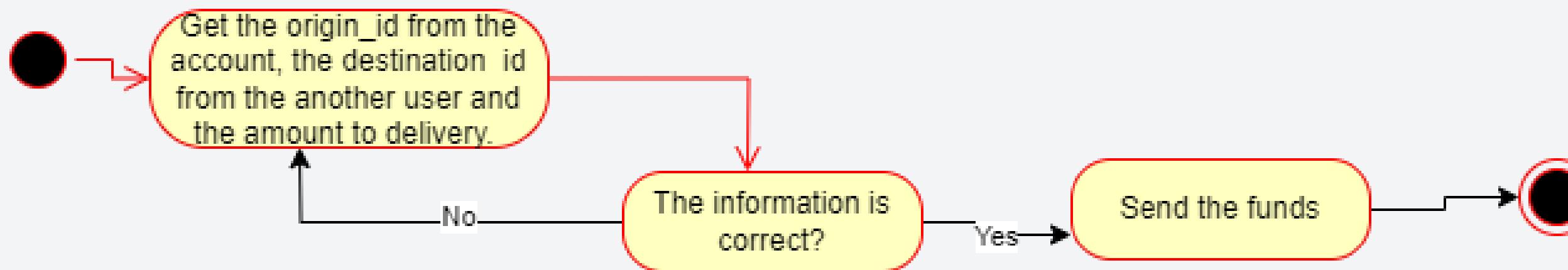
Activity: Request Founds



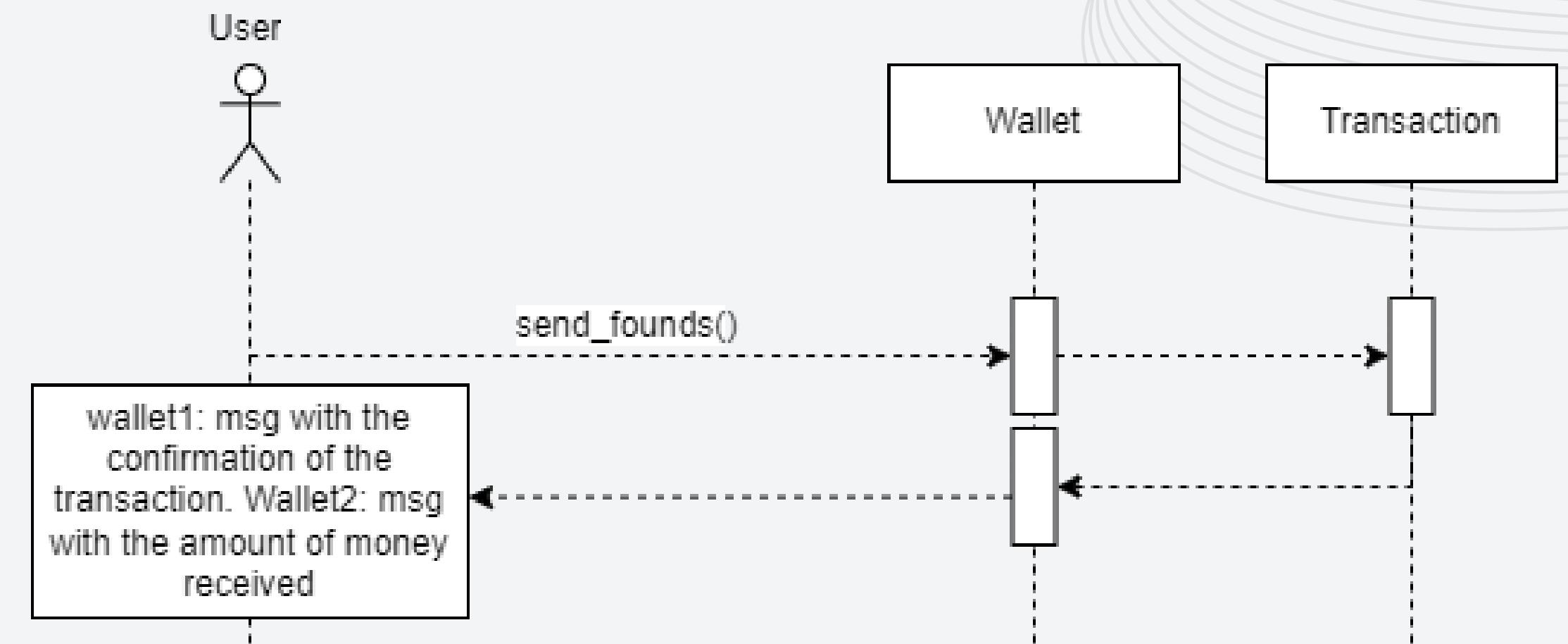
Sequence: Request Founds



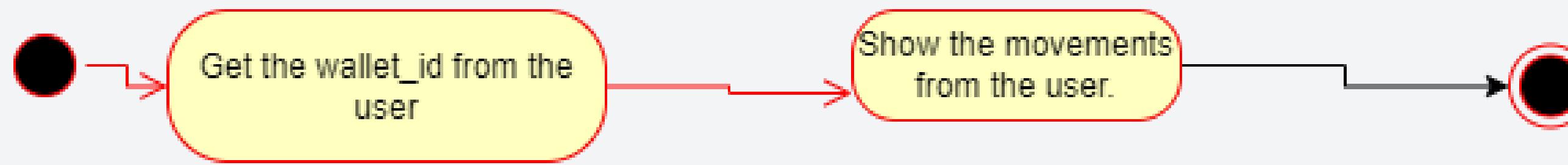
Activity: Send Founds



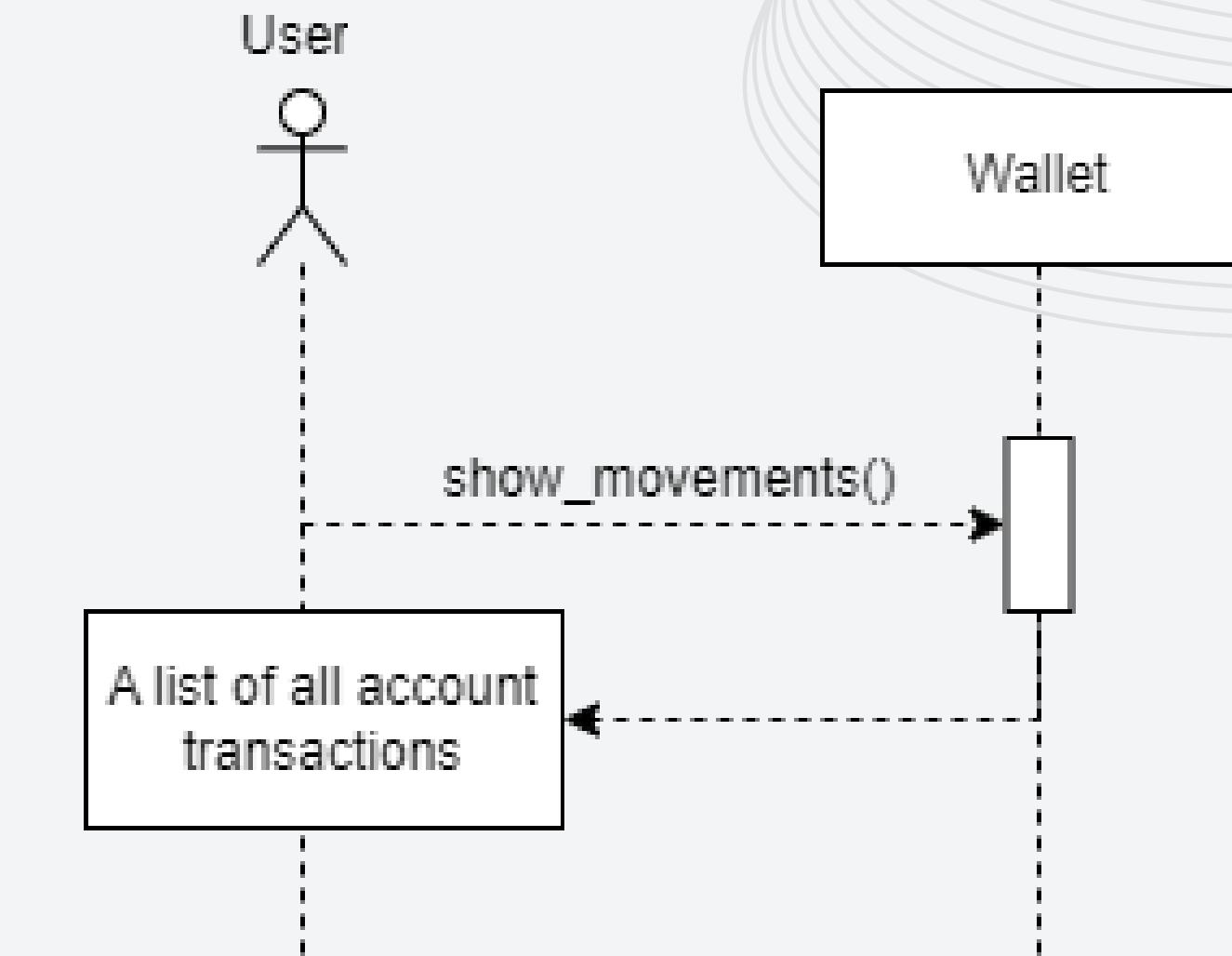
Sequence: Send Founds



Activity: Show Movements



Sequence: Show Movements



CRC Cards

User	
Responsibility	Collaborators
Store and validate application user data like name, wallet_id and email. Log in the user in the application.	Customer Wallet

Customer	
Responsibility	Collaborator
Save and validate the customer data.	User

CRC Cards

Address	
Responsibility	Collaborator
Validate the integrity and structure of data related at credit card	Wallet

Wallet	
Responsibility	Collaborator
Have the wallet information from the user. Have the credit card information. Develop the adding and sending of money. Show the movements from the wallet	User Transactions Credit card

CRC Cards

Transactions	
Responsibility	Collaborator
Validate the structure of transaction data and save it in the database.	Wallet

Credit card	
Responsibility	Collaborator
Validate the structure of credit card data	Wallet

Class Diagram

User

Customer

Address

Wallet

Transaction

Credit_card

