

## Simplified digital wallet system

### Who are its users

People needing to transfer money locally or across international borders.  
Examples: Wise, Grab Wallet

### Functional requirements

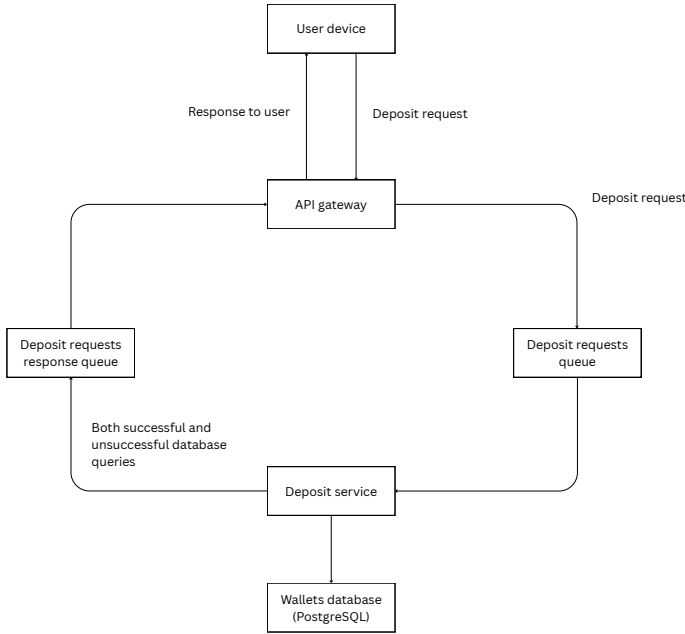
The user must be able to do the following through RESTful API calls.

1. Deposit money into his wallet.
2. Withdraw money from his wallet.
3. Transfer money from one wallet to another.
4. Retrieve the balance of his wallet.
5. Retrieve the transaction history of his wallet.

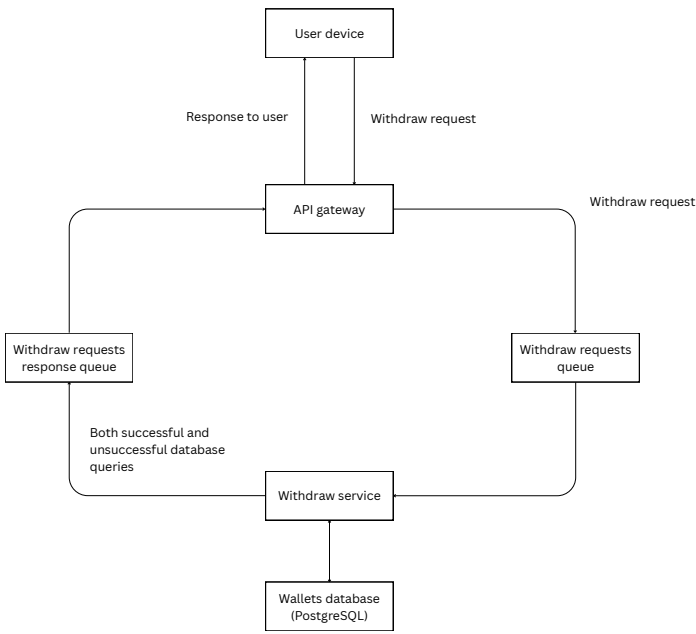
### Non-functional requirements

1. System is greatly simplified such that it can be coded up in 3 days with the time of only 1 person for job assessment purposes.
2. System need not be secure.
3. Not try to achieve high availability, scalability and durability as it would be too difficult to build with limited resource.

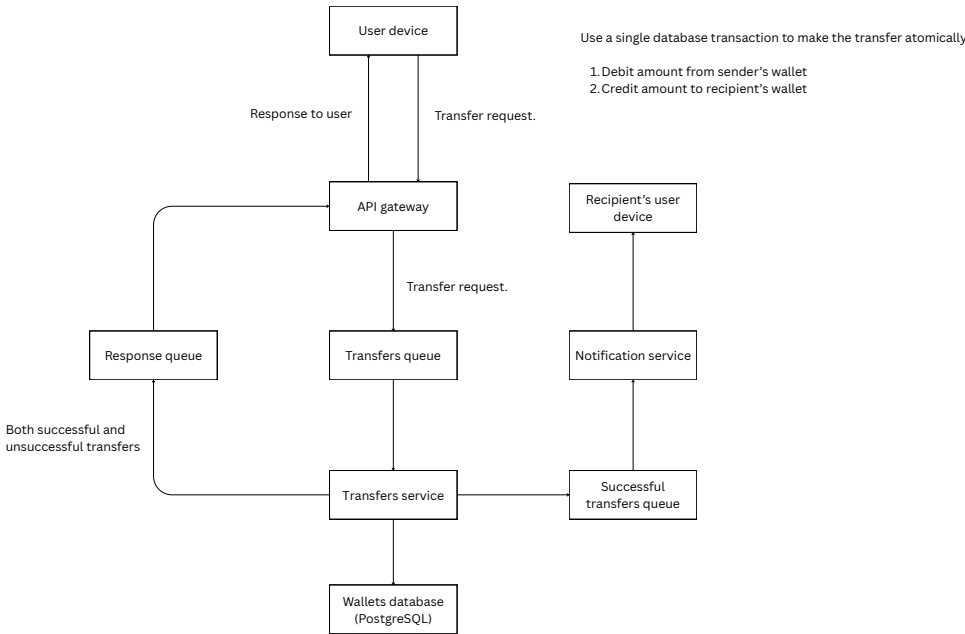
System design for depositing money into a wallet



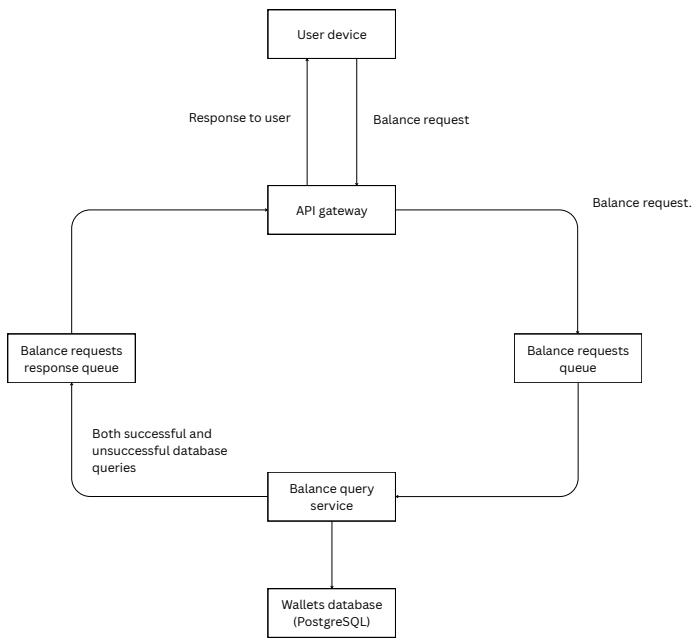
System design for withdrawing money from a wallet



System design for transferring money from one wallet to another



System design for retrieving the balance of a wallet



System design for retrieving the transaction history of a wallet

