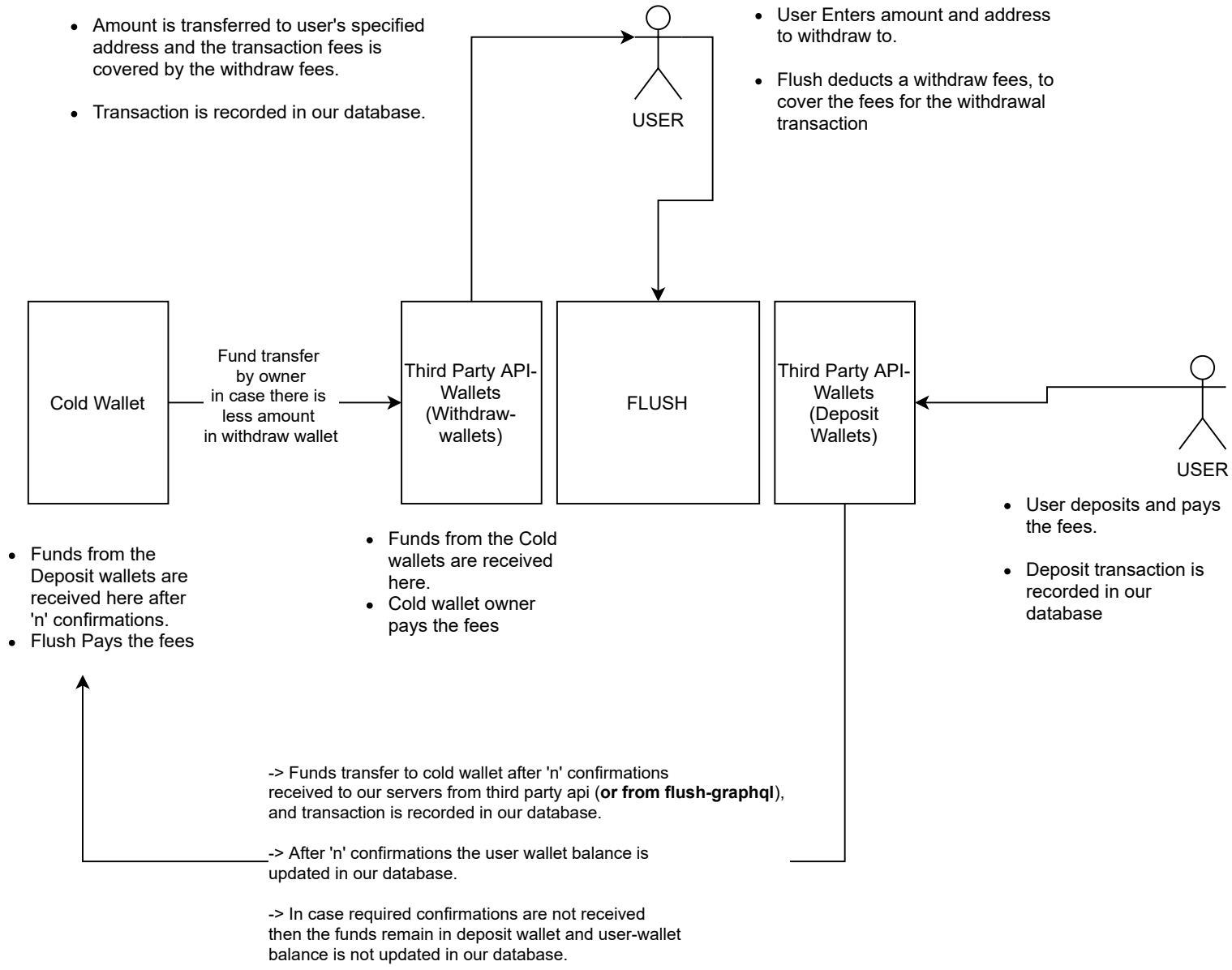
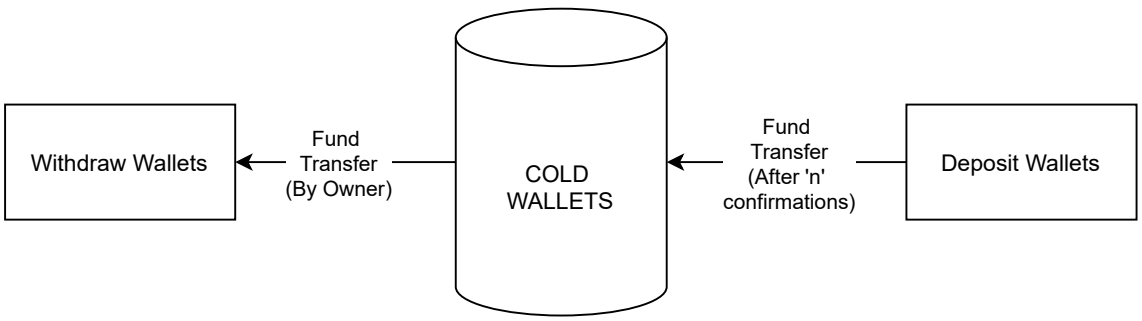
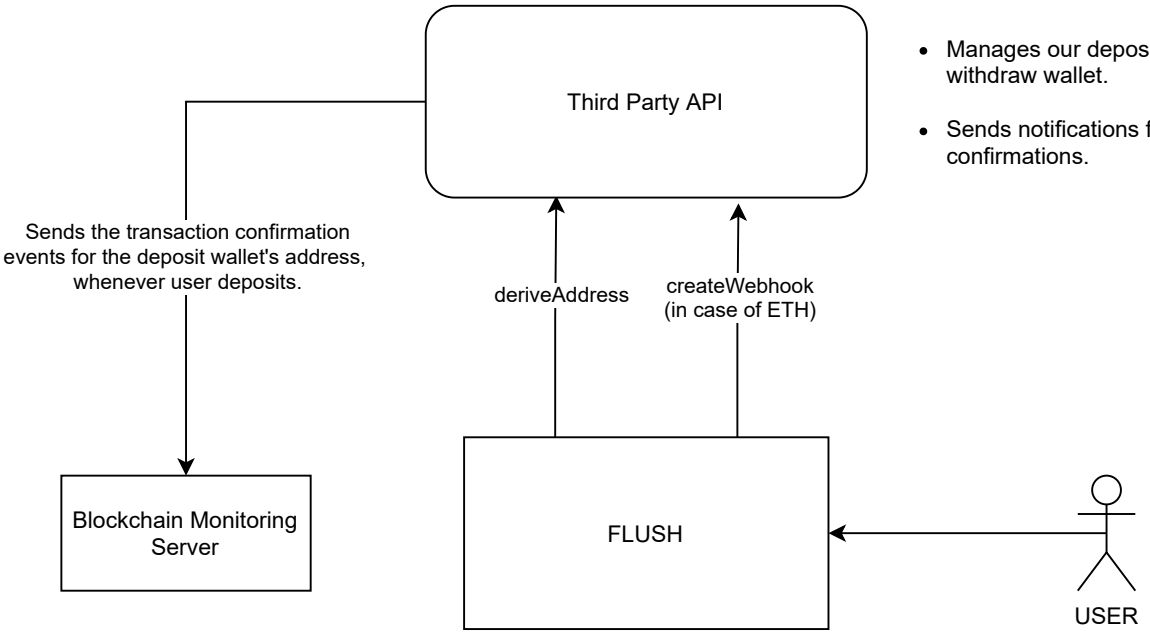


Transaction flow overview



User Deposits to Flush



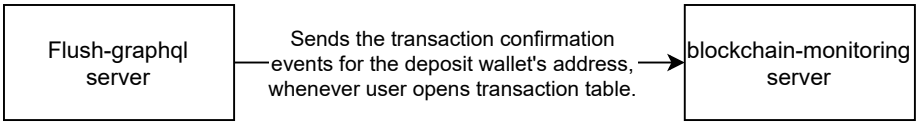
- Manages our deposit wallet and withdraw wallet.
- Sends notifications for confirmations.

- Listens to the transaction confirmation events. (i.e. confirmations of the deposits made on address in deposit wallet.)
- Stores transaction records and updates confirmations in database.
- After required confirmations are received it does 2 things:
  -> Updates user's wallet balance.
  -> Sends funds from deposit wallet to cold wallet.
  NOTE: The amount sent to cold wallet will be less than what is received in the deposit wallet because of the transaction fees.
- Record of these transactions are stored in the database.

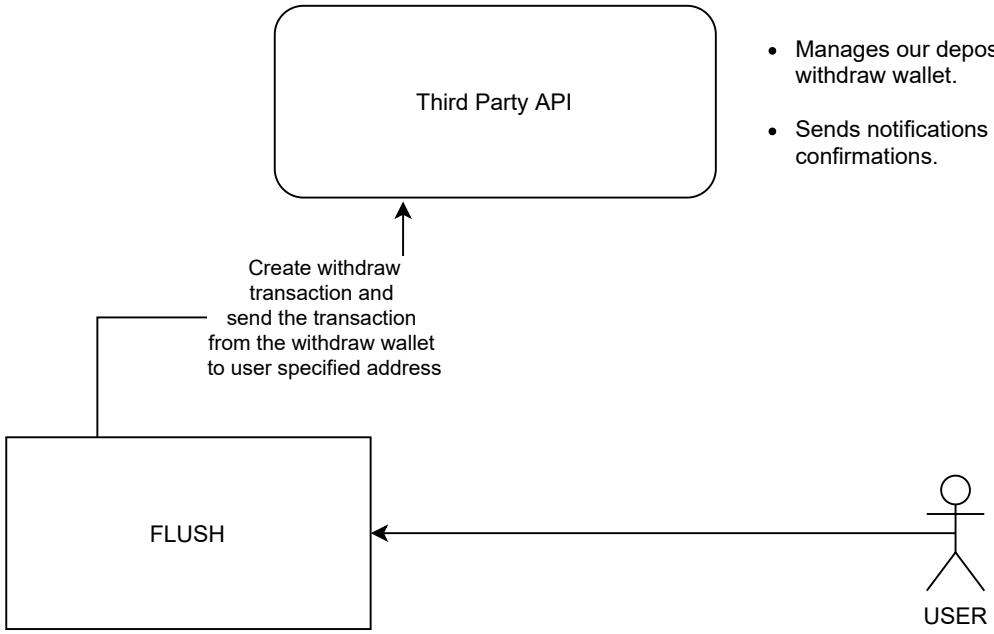
  P.S.:- In case the transaction confirmation is not received, the fund remains on the address in deposit wallet.

- User clicks on "Wallet" button, and chooses the currency.
- If it's the first time then the address is generated via calling the "deriveAddress" API, and also the webhooks(in case of Ethereum) are created for that address to receive confirmations event.
- For BTC, LTC and Dogecoin the webhooks are created(after the wallets are set up) for whole wallets.
- For Doge, BTC and LTC, addresses are being generated using the third party API, for ETH the addresses are derived on our server(and also a webhook is created) and no private key is being stored in our database.
- After user chooses his desired currency he will see the address to which he will make deposit on.

Note: Alternately, flush-graphql server will also send the transaction confirmation event to blockchain-monitoring.



User Withdraws from Flush



- Manages our deposit wallet and withdraw wallet.
- Sends notifications for confirmations.

- Withdraw fees is applied to the amount user inputs, this fees is required to cover the actual transaction fees from withdraw wallet to user specified address. If this fees is not applied then the transaction fees is to be paid by the withdraw wallet.
- After applying withdraw fees the "newTx" API is called to build the transaction for the amount(i.e. amount after subtracting the withdraw fees) and then the transaction is signed and carried out by calling "sendTx" API.
- The transaction details are stored in the database along with the casino withdraw fees, the actual fees, the amount after deduction and the actual amount.

  NOTE: If the withdraw wallet has insufficient balance then the transaction is failed and the user sees a Transaction failed error. In this case required funds needs to be transferred from the cold wallet to withdraw wallet.

- User clicks on "Wallet" button, goes to withdraw section and chooses the currency.
- After user chooses his desired currency he will input the address to which he will make withdrawal on and then input the amount.
- When user enters the amount to withdraw he sees the actual amount he will receive after casino withdraw fees is applied.