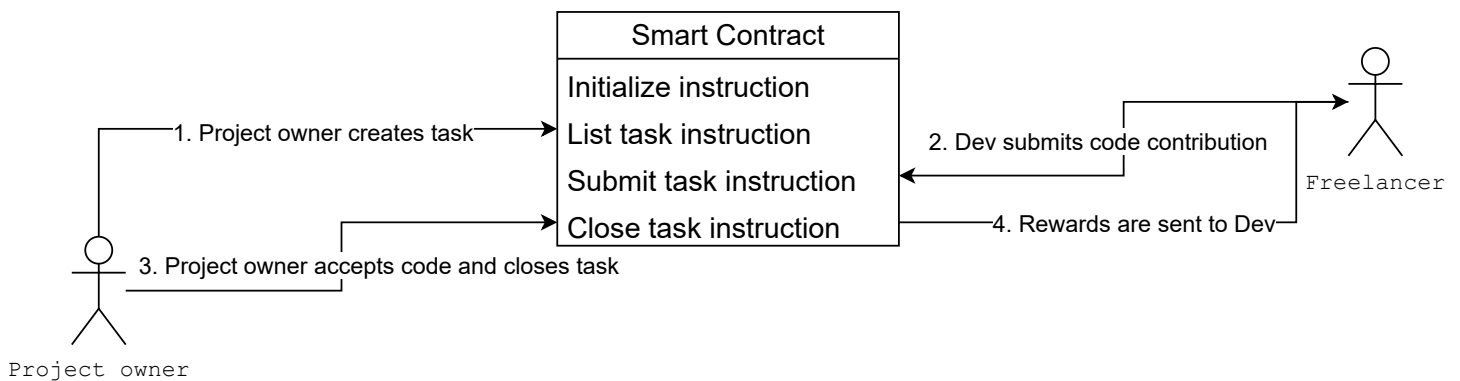


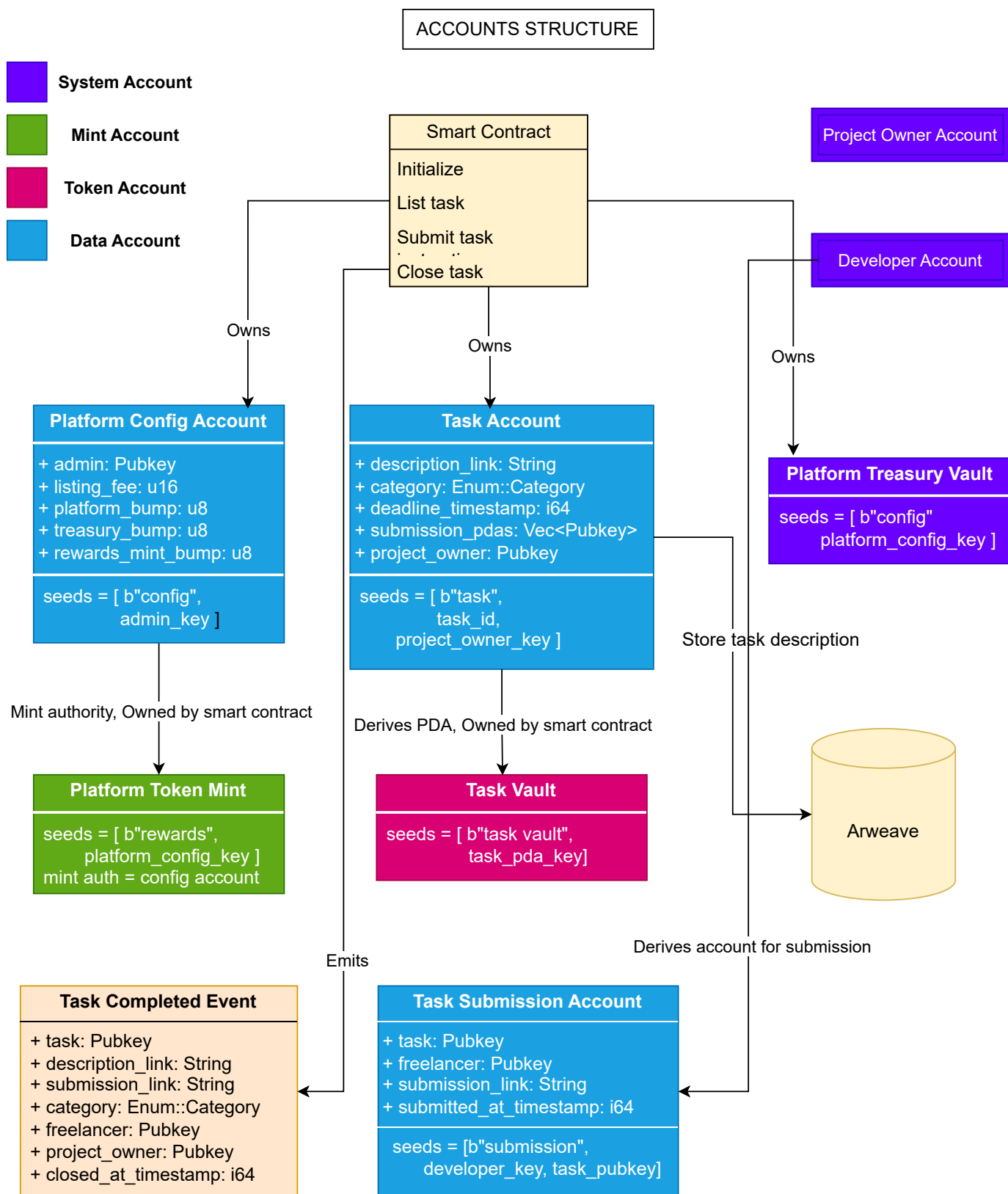
# Protocol POC Requirement

- Protocol shall allow a project owner create code contribution task, with details and a deadline
- Protocol shall allow a project owner deposit usdc as a reward for the task
- Protocol shall allow a developer submit code contribution on chain
- Protocol shall allow project owner review and approve contributions by sending rewards, and closing said task
- Protocol shall allow a developer receive usdc & soul bound reputation tokens as rewards for task completion and approval
- Protocol shall emit "task completed" event to solana log for record keeping

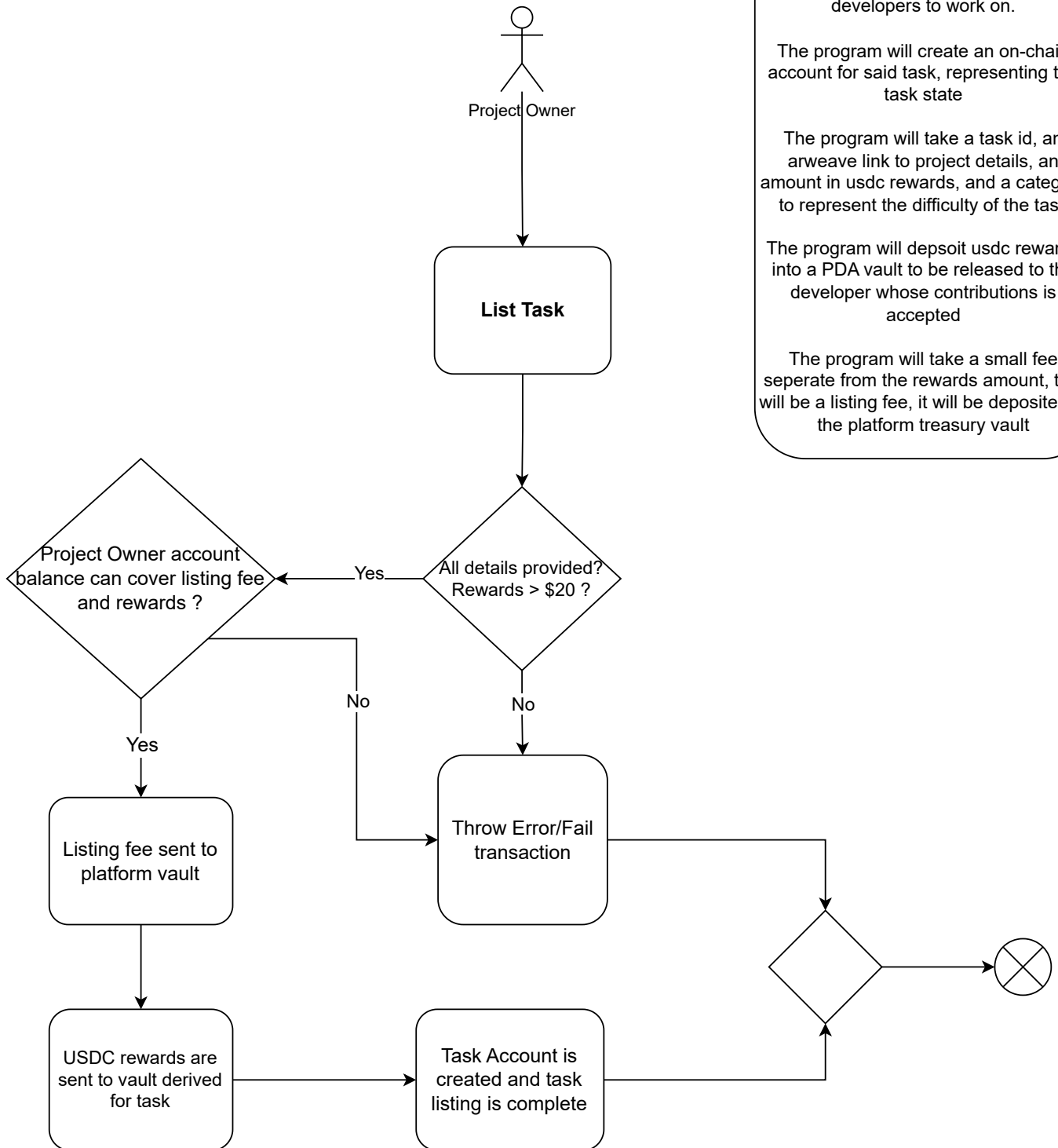
## Overview



1. Project owner creates task with a deadline timestamp, a link to the task details stored on arweave, and usdc deposited into a vault pda owned by our program, using the list\_task instruction
2. Developer sees task on the platform, completes the task and submits a link to the repo or commit where the code changes were made, using the submit task instruction
3. Project owner sees all submitted code changes, reviews them and accepts his preferred code changes by calling the close task instruction, which will send the usdc rewards to the user, mint soul bound reputation tokens to said user, emit a "task completed" event and close the task account on the blockchain.
4. Protocol will send usdc to the developer, emit the "task completed" event and close the task account.



## List Task



Project owner will list a task for developers to work on.

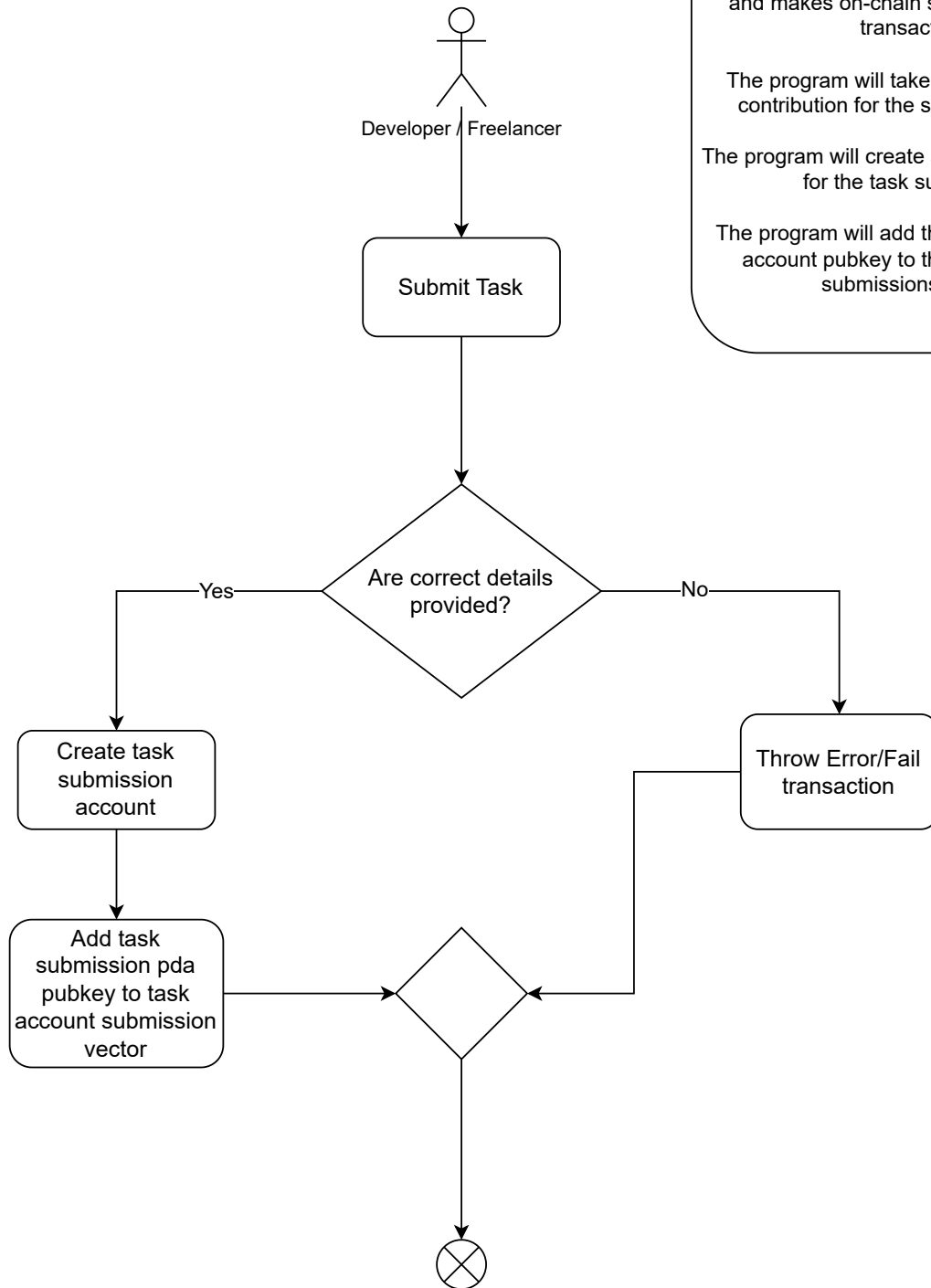
The program will create an on-chain account for said task, representing the task state

The program will take a task id, an arweave link to project details, an amount in usdc rewards, and a category to represent the difficulty of the task

The program will deposit usdc rewards into a PDA vault to be released to the developer whose contributions are accepted

The program will take a small fee separate from the rewards amount, this will be a listing fee, it will be deposited in the platform treasury vault

# Submit Task



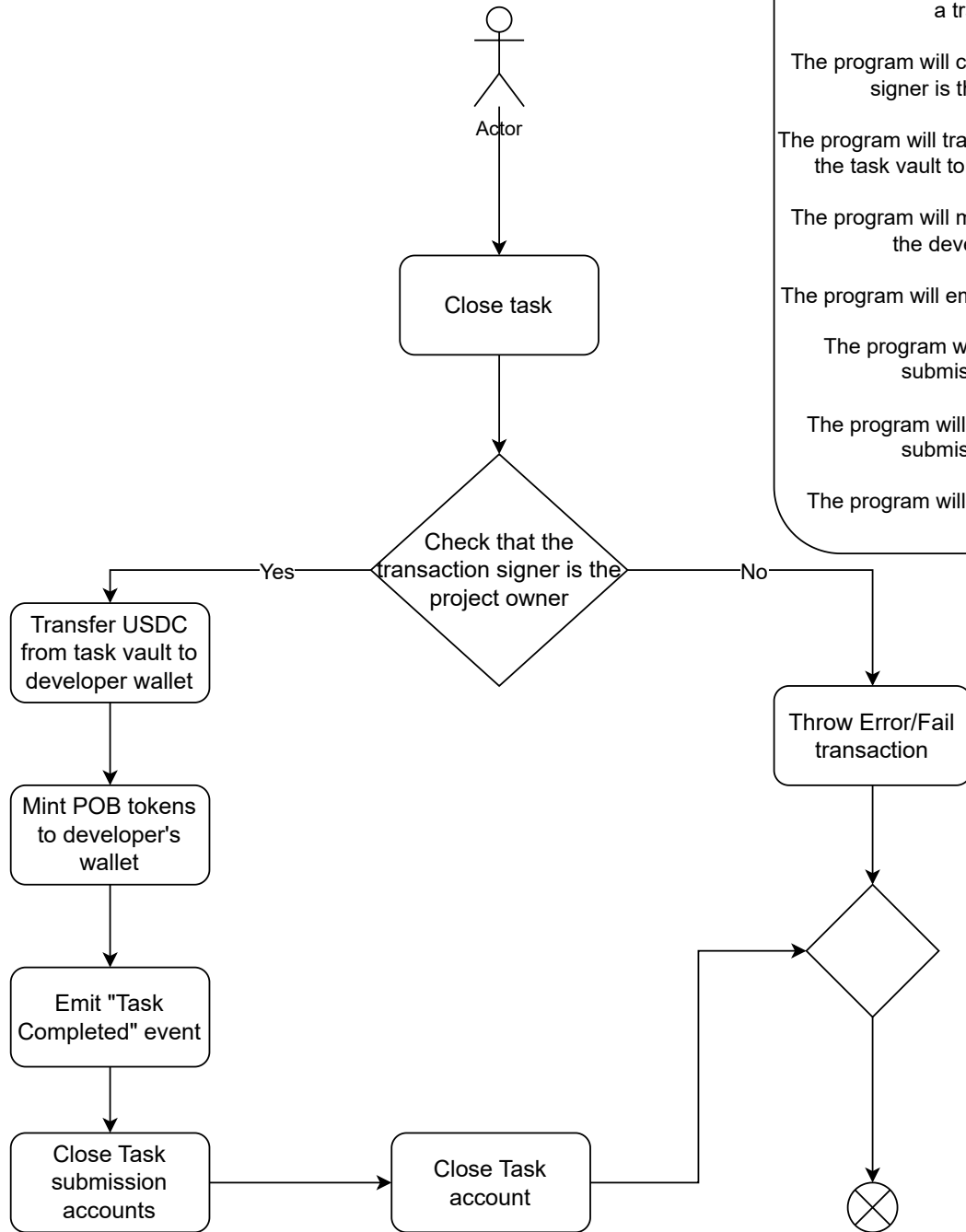
Developer does code contributions off-chain and makes on-chain submission with a transaction

The program will take a link to the code contribution for the submit instruction

The program will create an on-chain account for the task submission

The program will add the task submission account pubkey to the Task Account submissions vector

# Close Task



Project owner reviews code contributions off-chain and accepts a submission on-chain with a transaction

The program will check that the transaction signer is the project owner

The program will transfer USDC rewards from the task vault to the developer's wallet

The program will mint soul bound tokens to the developer's wallet

The program will emit "task completed" event

The program will close the accepted submission account

The program will close all non accepted submission account

The program will close the task account