Intermediate concepts

This chapter will go a bit faster than the previous ones.

We're going to be covering an important part of smart contract development: cross-contract calls.

Cross-contract calls

A cross-contract call is when a smart contract calls another smart contract. For instance, ifalice.near calls contract A, and contract A makes a call to contract B.

NEAR has asynchronous transactions, and some cross-contract calls will have callbacks in order to determine the result of the call. This works a bit different from other blockchains, as we'll explain more in this chapter.

Access keys

Last chapter covered access keys, and we implemented a login system where a user "logs in" by adding a function-call access key to their account which is tied to the crossword puzzle dApp.

Login is a common use case for access keys, but let's think bigger!

Remember the two (smaller, gray) function-call access keys from the keychain illustration?

Art byalcantara_gabriel.near

Notice that they have a clasp to make them removable.

While it's unlikely you'll want to give another person a full-access key, there are times when you could give a function-call access key to another person or make it public. Why? This can help enable a smooth onboarding experience, as we'll do soon.

Completed project

Here's the final code for this chapter:

https://github.com/near-examples/crossword-tutorial-chapter-3 Edit this page Last updatedonAug 9, 2022 byDamián Parrino
Was this page helpful? Yes No

Previous Access keys and login 2/2 Next Solution as seed phrase