

Blockchain programming - Lecture 03

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1 Review of lecture and assignment

We will be expanding on some of the subjects introduced in the lecture and assignments.

1. Fungible and non-fungible token ERCs.

2 Questions

1. Can blocks be removed from a blockchain? I always knew that they can't, but recently I run into a piece of information saying that it is possible and now I am confused.
2. Are there any good alternatives to Solidity that compile to Ethereum bytecode? If there is, why did you decide on us using Solidity and not an alternative option?
3. When calling an external/public function of a contract simultaneously by several other contracts/accounts, is the behaviour thread safe or some mutex mechanism is needed?
4. Can contracts initiate transactions or not? On the Ethereum website the following two things are stated, which contradict each other:
 - A. "An Ethereum transaction refers to an action initiated by an externally-owned account, in other words an account managed by a human, not a contract."

- B. “Smart contracts are a type of Ethereum account. This means they have a balance and they can send transactions over the network.”

3 Final assignment

Discussing ideas for your final assignment.