**Task 1: Smart Contract - General (Asset)**

Estimated time/effort for the contract and environment setup: **2-4 hours**

Estimated time/effort for the unit testing: **1-2 hours** (This is optional. If you skip it, then it won’t make any impact on the evaluation of your main task)

**Task scope and expectations**

● The purpose of this task is to build a functional, real-life application with all listed requirements.

● What we want to see is how you will implement some real-life functionalities by paying attention to details and following good development practices.

● We want to see you understand how to set up a proper project infrastructure, show knowledge of simple problem solving, and knowledge of using your preferred frameworks and libraries.

● Instead of spending a lot of time on providing a custom UI or other supportive configurations, please rather ensure the functionality is properly done.

● Try to make proper commits to the code. Make your first commit within the first 2 hours of working on the task.

**Task details**

Using a platform of your choice, build a smart contract that will be used to sell an asset to multiple parties. More specifically, the contract needs to allow anyone to set up an object with a fixed "price" that other users can then "purchase" stakes in.

Once a purchase is initiated, the owner of the object receives funds, while the buyer gets stakes. The stakes are stored in the contract and are not transferable further.

**Milestones and task delivery**

● The deadline to submit your completed project is **3-4 hours from the moment you receive the project requirements**.

● It means the project code must be submitted within the above-mentioned time from the moment that was delivered to you by email.

● Make sure to submit your completed project and all code to a public GitHub repository before the deadline and share it with us.

● Everything that is submitted after the deadline will not be taken into consideration.

● If you want to extend the time. You will have to commit the codebase to the git and write us back for the extension in time.

● There will be a 30 minutes call to discuss the solution that you will provide.