

**Author:** Constantino Mora

**Date:** Nov. 5th, 2021

### **Imagine you are designing a new blockchain system**

First, a new blockchain system will strongly depend on the use case or use cases around it. If we assume that we want to create a new blockchain system to enhance what previous blockchain systems have built, then that will be debatable as to why we should create another system instead of building and developing over the foundation layer that previous blockchain systems have established so we can innovate. For purposes of this homework we will assume that I am building my own blockchain system without knowledge and inspiration of already built-in systems.

#### **What behaviour / aspects of the system do you want to encourage?**

I want to encourage the system to be distributed and decentralized, data remains persistent through time, the system to be resilient, with no single-point of failure and high availability.

#### **What behaviour / aspects of the system do you want to discourage?**

Double-spending, throttling the network, DDoS attacks, centralization, trust over VIP parties, slow transactions, low throughput.

#### **What means do you have for this incentivisation?**

Cryptocurrency fees, funds at stake and identity reputation.