

I. INTRODUCTION

Selling digital assets has become a problem for a creator in this internet era. Lack of transparency on sales was became a pain point for creator for selling digital assets [1]. Management of sales and distribution of royalty still a big challenge to face for a creator. With the awareness of this problem, proper system ideas start to surface around researcher.

The proposed system is to use web application to process data & interface user to access the system and databases to store record of all transaction and user data [1] .

Regardless of the benefit digital assets sales system, there are some serious challenges it must face. Most of system are using private database and centralized system that can led into manipulation for one party and vulnerable to single point of failure that can affect to whole system.

To overcome the lack of transparency and single point of failure problem, the solution that researchers propose is smart contract in blockchain. The blockchain is proposed because its character is immutable, tamper proof which makes the data hard to manipulate and transparent, such that everyone in the group can track every transaction in chronological order and accountable. Smart contract is used because we can create a code as a law that can run in top of blockchain, every interaction represents as a transaction so the state transitions can be audited by anyone.