Our project consists of two Solidity contracts. Our Rentable NFT contract allows for the purchase of digital assets (NFTs) that can be used in the game or rented out to other players. The Reward Token contract creates an in-game currency that can be acquired by playing Dubstep Dukeout. The Rentable NFT contract has been deployed and the Reward Token contract will be deployed in the future once the game is integrated with the blockchain.

Motivation

Our sponsor, MacNerd Enterprises, asked our team to build a DJ-themed NFT and game ecosystem. We set out to create a game that is simple to learn but hard to master within a blockchain environment. The goal of this project is to provide players with a constant sense of value throughout their playtime by providing rewards on the blockchain. This will strengthen the community by giving players the feeling that they are always being rewarded for their time.

Abstract

Dubstep Dukeout is a NFT/Game blockchain project. Throughout this project we developed an NFT and a game and worked on marketing our game by building a community around it. Users can log-in to our website, through MetaMask, and their information will be stored in our database. They can then mint their own NFT on the Polygon chain (Similar to Bitcoin but a different currency). Once they join the community by buying an NFT, they can play the Dubstep Dukeout game. In the future, the game will provide rewards with monetary value through the power of the blockchain.

Contract

Our project consists of two Solidity contracts. Our Rentable NFT contract allows for the purchase of digital assets (NFTs) that can be used in the game or rented out to other players. The Reward Token contract creates an in-game currency that can be acquired by playing Dubstep Dukeout. The Rentable NFT contract has been deployed and the Reward Token contract will be deployed in the future once the game is integrated with the blockchain.

Result and Conclusions

- Functional Beta of the game
- Deployed Rentable NFT Contract
- Live Website to facilitate purchase of NFTs
- Deployed backend to save user website logins

We learned about blockchain, project management, and game development during our time with the project. Based on what we have learned, the only change we would make would be to implement our project management tactics sooner to facilitate even more efficient development. If we had another semester, we would integrate the game with the NFT so that the user can gain real monetary value from playing the game through reward tokens.