Project 3
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Whole Lotto Tokens

Modernizing lottery systems through smart contracts



Lottery Contract

Create an interactive lottery system through smart contracts utilizing Solidity

1. Project Background!

Here's a bit more about our idea.

Objectives

Third First Second Last Pool the Select a Allow multiple Pay out the addresses to earnings from randomized earnings to the the ticket winner winner and reset purchase lottery tickets for a set purchase to zero price

Definitions



Blockchain

A network of nodes linked peer-to-peer that facilitates transactions similar to a distributed ledger.



Wallet Address

A digital wallet used to store cryptocurrencies and conduct secure transactions.



Block Hash

A function that converts an input of letters and numbers into an encrypted output.



Constructor

A special method that gets called whenever an object of a class is initialized.



Smart Contract

Computer code that automatically executes all or parts of an agreement and is stored on a blockchain-based platform.

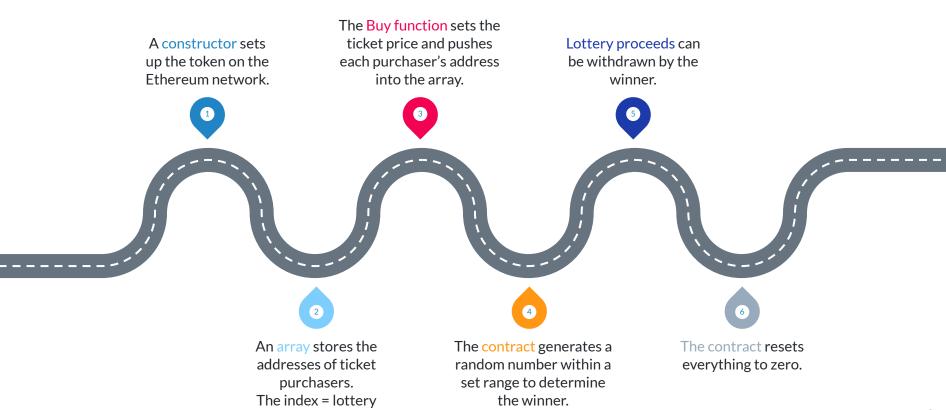


Token

A virtual asset or utility that resides on their own blockchain.

Coding Roadmap

ticket number.



Testing

Phase 1

A single person purchased multiple lottery tickets from several accounts. This initial test verified the contract would select a random winner.

Phase 2

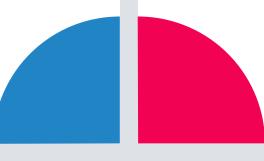
Several different individuals purchased lottery tickets. This test verified others could import the contract and buy a ticket.

Z. Demo!

Ethere-UM, you just won the lottery!

Challenges

Getting a random number generator to work.



Determining how to give multiple people the ability to buy tickets.

Conversion rate of Ethereum to our Lottery Token.



Next Steps

Exchange Rate

Use multiple types of cryptocurrency in the same contract

Other Methods

Have users pick a number to win instead of assigning a random winner

More Security

Restrict certain functionality to the contract owner

Thanks! Any questions?