



LOTTIX

A NEW CRYPTO LOTTERY

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Summary:

LOTTIX: A new crypto lottery

- Smart Contracts - enable transparency and security.
- Blockchain - ensures quick and traceable payments of crypto winnings
- Crypto currency which is an instrument that can offer fantastic economic opportunities of profits.



DEMOS

FRONT END: REACT | BACK END: SOLIDITY



SMART CONTRACTS AND FUNCTIONALITIES

ILotteryInterface.sol

This interface uses React to create the Lottix User Interface (UI) and connect to the ILottoInterface smart contract.

TIXMinter.sol

Mnts an initial supply of "TIX" (ERC-20 token) and sends the TIX to a pre-determined address

GenerateNewLottery.sol

Comprised of several smart contracts representing different types of lotteries. Each contract implements the ILottery interface and includes functions for users to invest in the lottery by purchasing tickets

Lottix .sol

Allows users to join a lottery by purchasing TIX tokens at a specified price per token in Wei. Users provide their guesses for the lottery numbers, and the contract records the user's guesses. It also runs the draw and checks for winning numbers/ticket matches based on the results of external lotteries, paying prizes.

WhaleContract.sol

Facilitates the generation and management of new lottery instances and maintains the lottery's initial jackpot, treasury cut, payouts, and various thresholds for handling whale participants.

IWhaleInterface.sol

Allows GenerateNewLottery contract to run functions from within the whale contract.

New Libraries used:

`import "@openzeppelin/contracts/security/ReentrancyGuard.sol"`

Helps prevent reentrant or nested calls to a function.

`import "@openzeppelin/contracts/access/Ownable.sol"`

~~Provides basic access control mechanism, where an account (an owner) can be granted exclusive access to specific functions. The initial owner is set to the address provided by the deployer.~~

Conclusion



PROJECT CHALLENGES

- Logic complexity
- Integration of multiple tools (Metamask, REMIX, etc.), functions and contracts
- Gas fees
- Minting tokens



SCALABILITY

Depends on Legal Regulations by Location.
The value offered by the LOTTIX solution
can provide a flexible ROI and scalable user
base.



THANK YOU FROM EVERYONE AT LOTTIX AND...

GOOD LUCK!