# LunaToken

ERC20 Token with Dynamic Pricing and Airdrop Functionality

# Our Team

## Chadwick Sanon

Chad is interested in creating an algorithm that allows him to further code and predict not only stock futures but also trade crypto's as well autonomously.

## Yousef Sersy

Yousef is passionate about blockchain and is looking forward to working more in that space. He worked on LunaToken's smart contract and front end.

## David Kratzer

David is interested in Machine Learning and developing algo-training. He was the Repo Manager for our project.

## Elizabeth Ogando

Elizabeth is interested in all things DeFi and project management. She put together the powerpoint.

# Table of contents

01

# What is Lunatoken?

# What Luna Token Brings

LunaToken is founded on three principals:

- Security
- Autonomy
- Ease of Use

We went into this project with those in mind as we feel a lack thereof defeats the purpose of defi technology.

# LunaToken

## Front End

Our Front End is interactive, and has a very user friendly interface. We used streamlit to develop it.

## Back End

The Back End is a Smart Contract developed on Remix IDE.

## Dynamic ETH Pricing

Dynamic ETH pricing is a real-time adjustment of Ethereum's value based on market conditions.

## AirDrop Functionality

This allows the distribution of tokens to multiple wallet addresses.

# 02

# Development

# $2.33 Trillion

The current worth of the crypto industry in 2024

# Our Research

## Security

Ethereum is a safe choice for transactions and contracts due to its decentralized network, robust security protocols, and extensive smart contract validation by its global community.

## Autonomy

Ethereum offers autonomy through its decentralized platform. Anyone can make self-executing smart contracts and applications that operate independently of central authorities.

“No matter who the financial advisor of the future becomes, they will be running a Blockchain based operating system for commerce and finance.”

— **Lex Sokolin**

# What Tools We Used

## Solidity

Solidity is a high-level programming language for creating smart contracts that run on the Ethereum blockchain, enabling decentralized applications.

## OpenZeppelin

OpenZeppelin is a library of reusable, secure smart contracts for Ethereum, providing tools and standards to help developers build robust decentralized applications.

## Ethereum

A decentralized blockchain platform that enables the creation and execution of smart contracts and decentralized applications using its native cryptocurrency, Ether.

## Remix IDE

A web-based integrated development environment (IDE) used for writing, testing, and deploying smart contracts in Solidity on the Ethereum blockchain.

## Ganache

Ganache is a personal blockchain for Ethereum development that allows developers to deploy, test, and run smart contracts in a controlled environment before deploying them to a live network.

## ERC-20

The standard for creating and managing fungible tokens on the Ethereum blockchain, ensuring compatibility and uniformity across decentralized applications and exchanges.

# 03

# Post Mortem

# Continued Development

## Integrated Wallet

An integrated wallet securely stores and manages the token, allowing users to send, receive, and interact directly within the Ethereum network

## Live Pricing

Live pricing for Ethereum provides real-time data on the current value of ETH, reflecting its latest market price and fluctuations across various cryptocurrency exchanges.

## Updates

Over-the-air  updates for security and front-end ensuring the latest security patches and user interface enhancements.

# Demo

# Thanks!

## DO YOU HAVE ANY QUESTIONS?