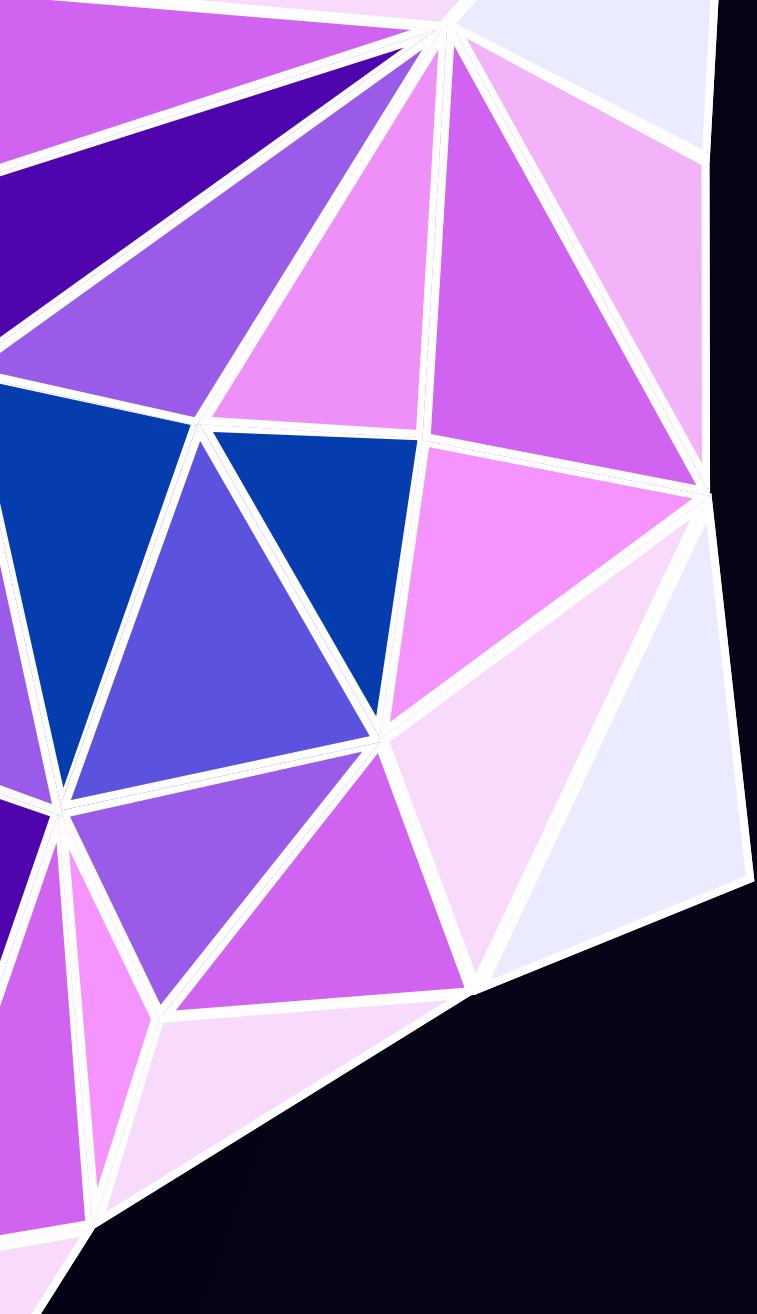


# Whitepaper

## Introduction

CryptoLucky aims to be a revolutionary fully decentralised system within the world of blockchain and lotteries, providing utilities and a complete system that the user can take advantage of to have more chances of winning than in a conventional lottery.

One of our features is a "second chance" or "extra ball" system that users will enjoy receiving different types of tickets just for participating (CryptoLuckyTickets). The system will allow expansion to other tokens within the network and the use of NFT (Not Fungible tokens).



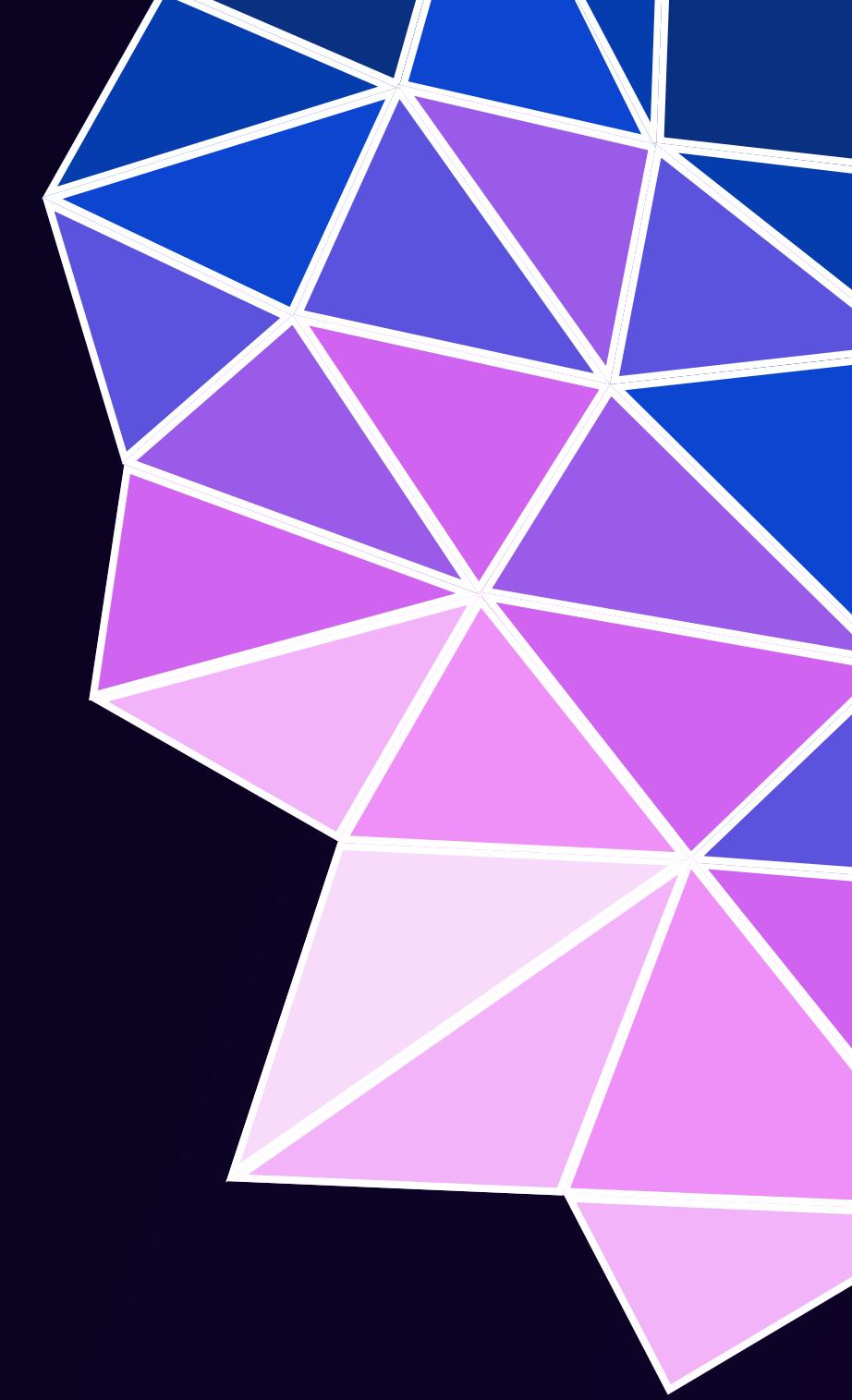
## Background

### What is better than always winning?

The CryptoLucky concept was initially created in the summer of 2021, after the emergence of a large number of Blockchain projects, most of them focused on two areas: P2E gaming and NFT collecting. Most of these projects died shortly after their peak sales, some due to the disappearance of the creators and others due to the misuse of the system's economy (P2E games). After the vision left by the Blockchain community this summer, we asked ourselves. **Could we create a system in which all users win and sustainable over time?**



The answer to this question was **CryptoLucky**. After the creation of the initial concept, the development team started with the technical foundation using Solidity. In the last two years the team worked to provide a completely innovative idea and bring the best possible experience.



## WHY?

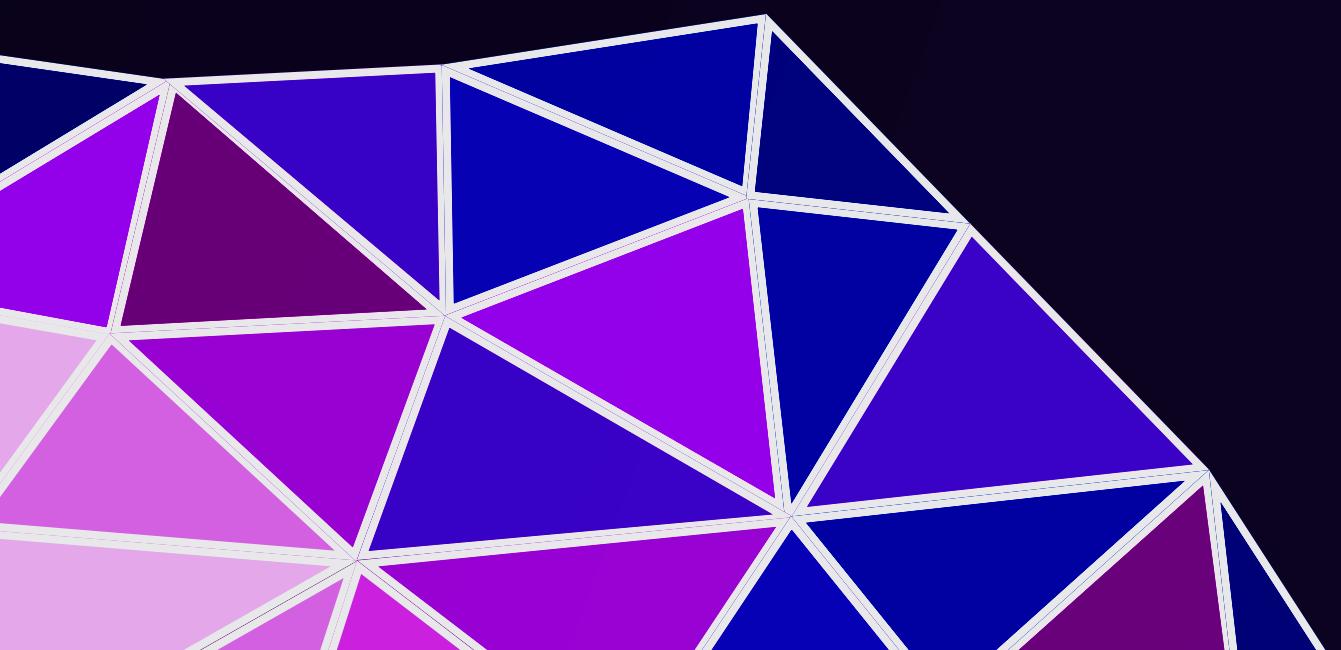
### Innovative Idea

CryptoLucky has the goal to be a novel, fully decentralised system in the field of lotteries and blockchain. Its purpose is to provide functionalities and a complete platform that users can take advantage of to increase their chances of winning compared to a traditional lottery. One of CryptoLucky's innovative features is the ability to obtain additional tickets, known as CryptoLuckyTickets, for simply participating, which offers a "second chance" to users. This system also has the ability to expand to other tokens on the network and allow the use of non-fungible tokens (NFT).

### Our Vision

We believe that the blockchain has a major potential that is currently being wasted. Most of the uses that are currently given to the network are simple and not sustainable over time, yet we believe that the nature of this system benefits the creation of new projects capable of revolutionizing the industry.

The idea of a totally transparent, decentralized and secure lottery platform will revolutionize the outdated lottery system currently in use. It will be able to decrease intermediaries to allow more flexibility and lower transaction costs.



# HOW?

## Regular Lotteries

The user will initially be able to access the "Regular Lotteries". These lotteries will be paid in \$ETH.

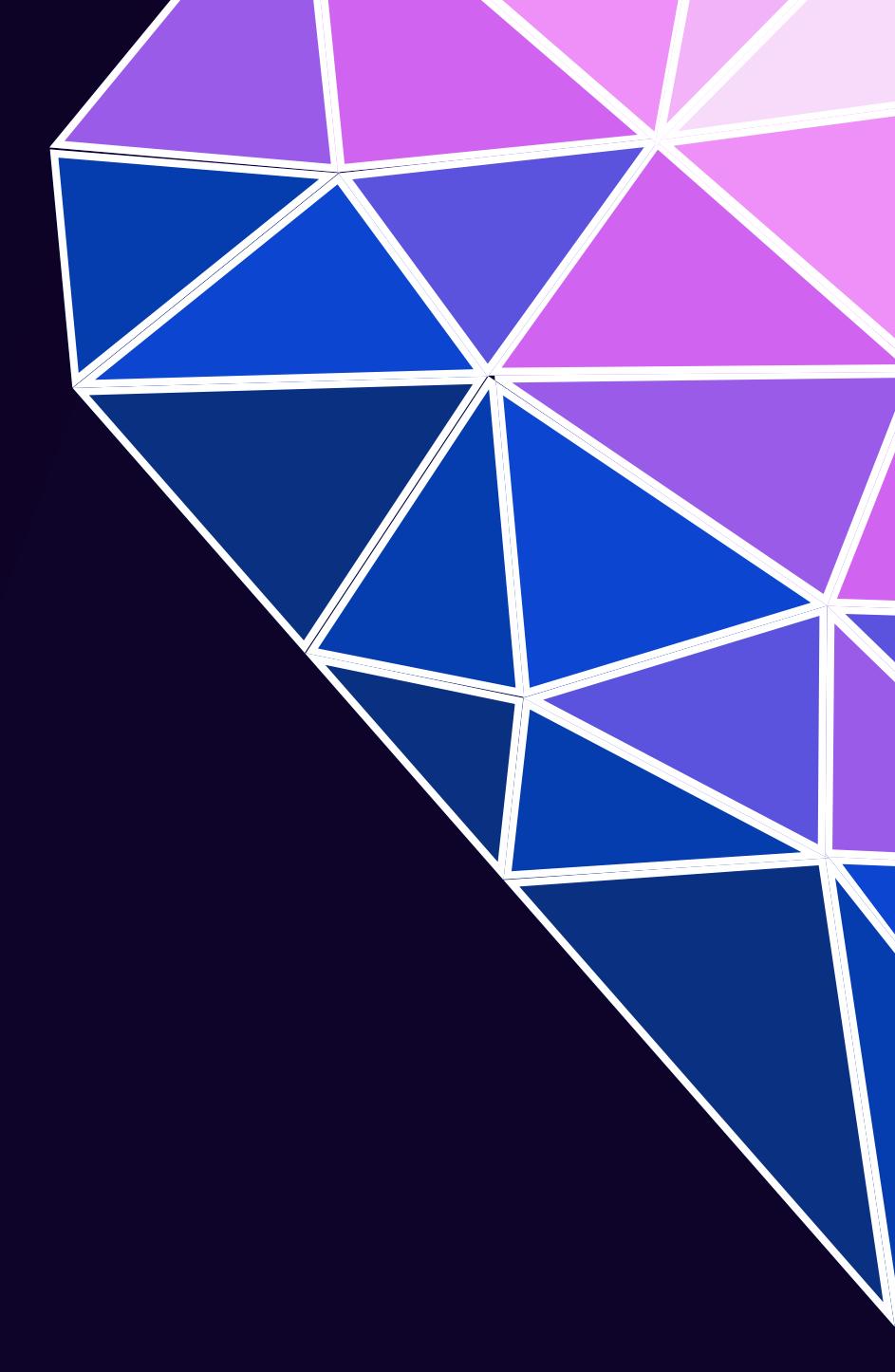
The user will access the lotteries of this type from the website or directly from the Smart contract.

To avoid tickets running out quickly, either by bots or whales, the number of tickets available for each wallet will be limited to a maximum number depending on the lottery. This will increase the number of users who can access, giving them the opportunity to access the lotteries.

At any time there may be different lotteries active on the site, these lotteries will depend on different factors, which are: Price per ticket unit, Prize, Number of winners, Number of tickets on sale, and Maximum number of tickets per wallet.

With this system the user will be able to access the lotteries that best suit their preferences, allowing all users to enjoy CriptoLucky.

Finally, part of the funds collected in the lottery will be kept for the use of the team in management expenses (page, artists ...), marketing expenses, collaborations, promotions...



## HOW?

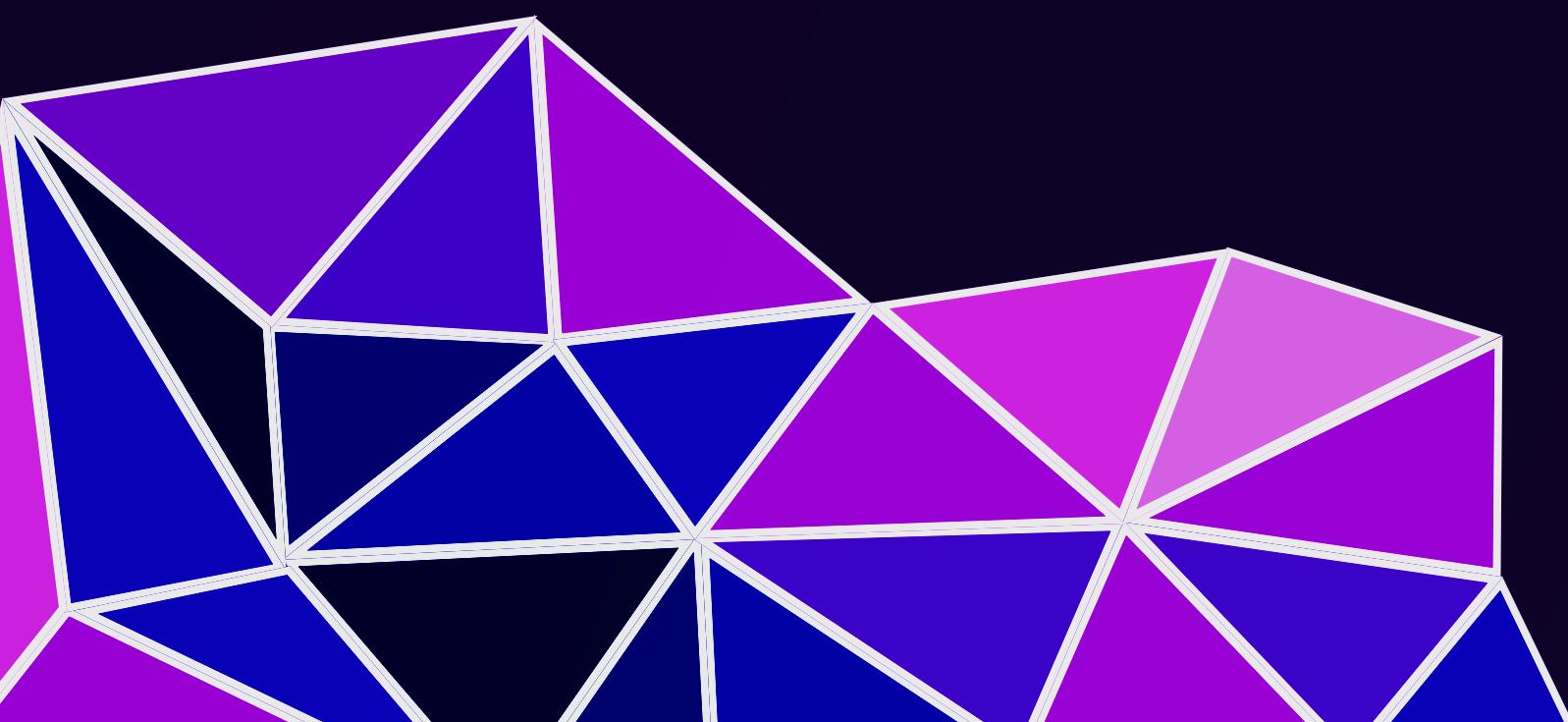
### Tokenomics and Featured lotteries.

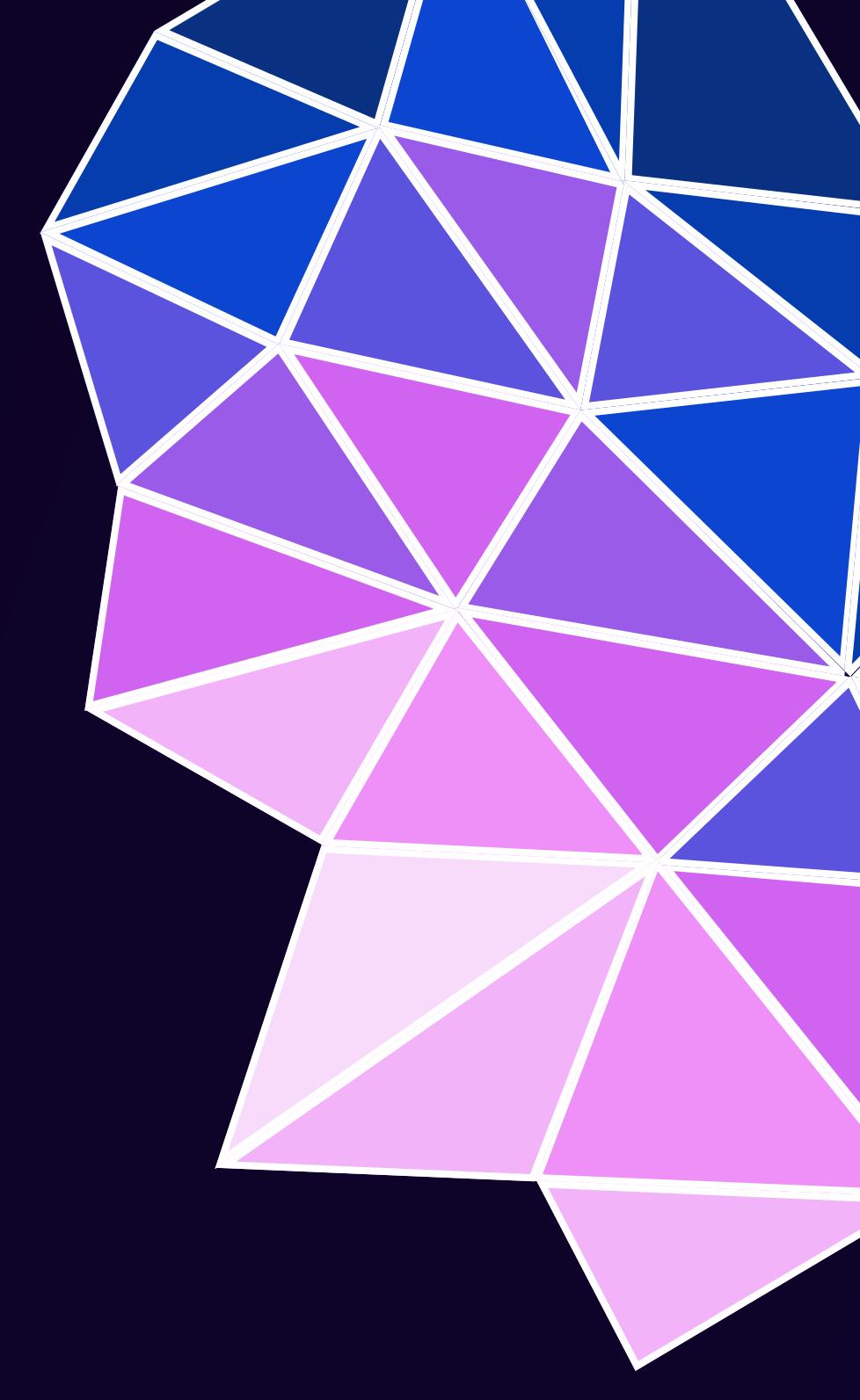
Each lottery brings different advantages in addition to the lottery prize. Each lottery ticket purchased will give the user a CryptoLuckyTicket. Each CryptoLuckyTicket will give the user the right to access "Special Lotteries" and "Event Lotteries" for free.

The "Special Lotteries" can only be accessed with the corresponding tickets and will bring different amounts of prizes. "Event Lotteries" are special lotteries which are only available for a certain period of time.

CryptoLuckyTickets can have different rarity depending on the cost of the "Conventional Lottery", the higher the cost of the ticket, the higher the rarity of the \$CLT.

The rarer each ticket is, the better lotteries will be available.





## HOW?

### Tickets Rarities

Common (\$CCT)

0.01-0.04 ETH

Rare (\$CRT)

0.05-0.09 ETH

Epic (\$CET)

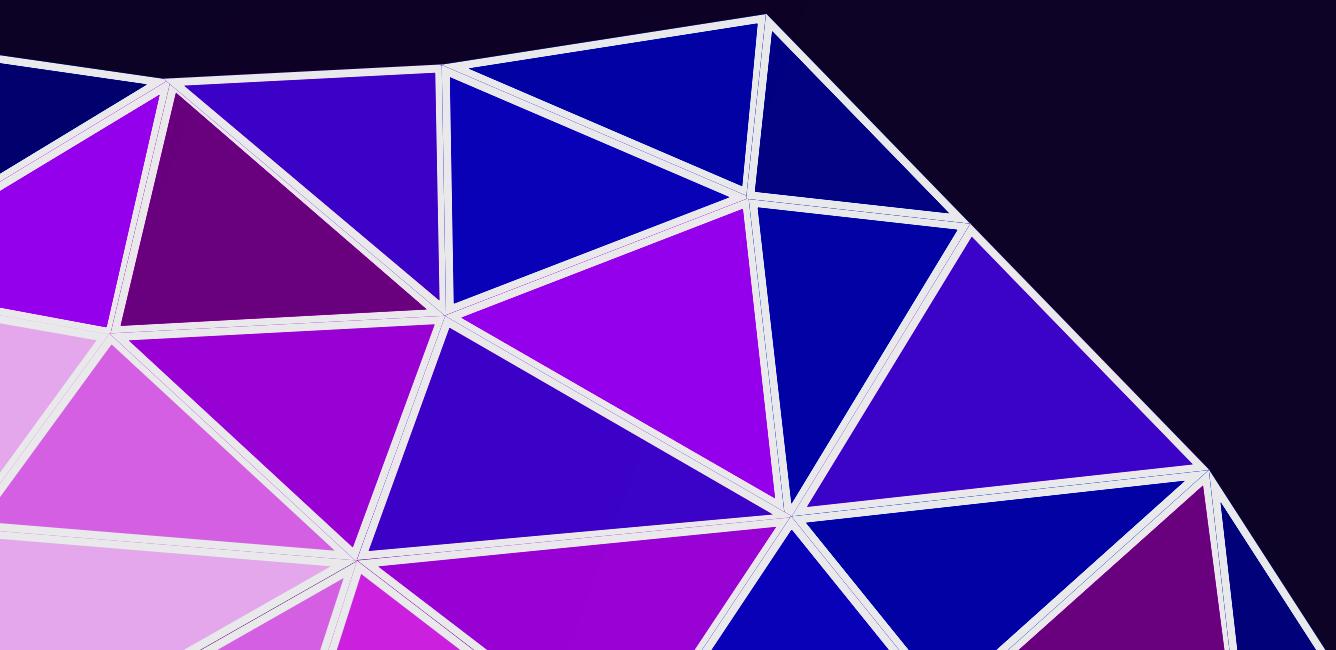
0.1-0.5 ETH

Legendary (\$CLT)

+0.5 ETH

In case a user has several tickets of the same rarity, the user will be able to exchange them for tickets of a higher rarity. The exchange rate will be:

- 5 Common → 1 Rare
- 2 Rare → 1 Epic
- 5 Epic → 1 Legendary



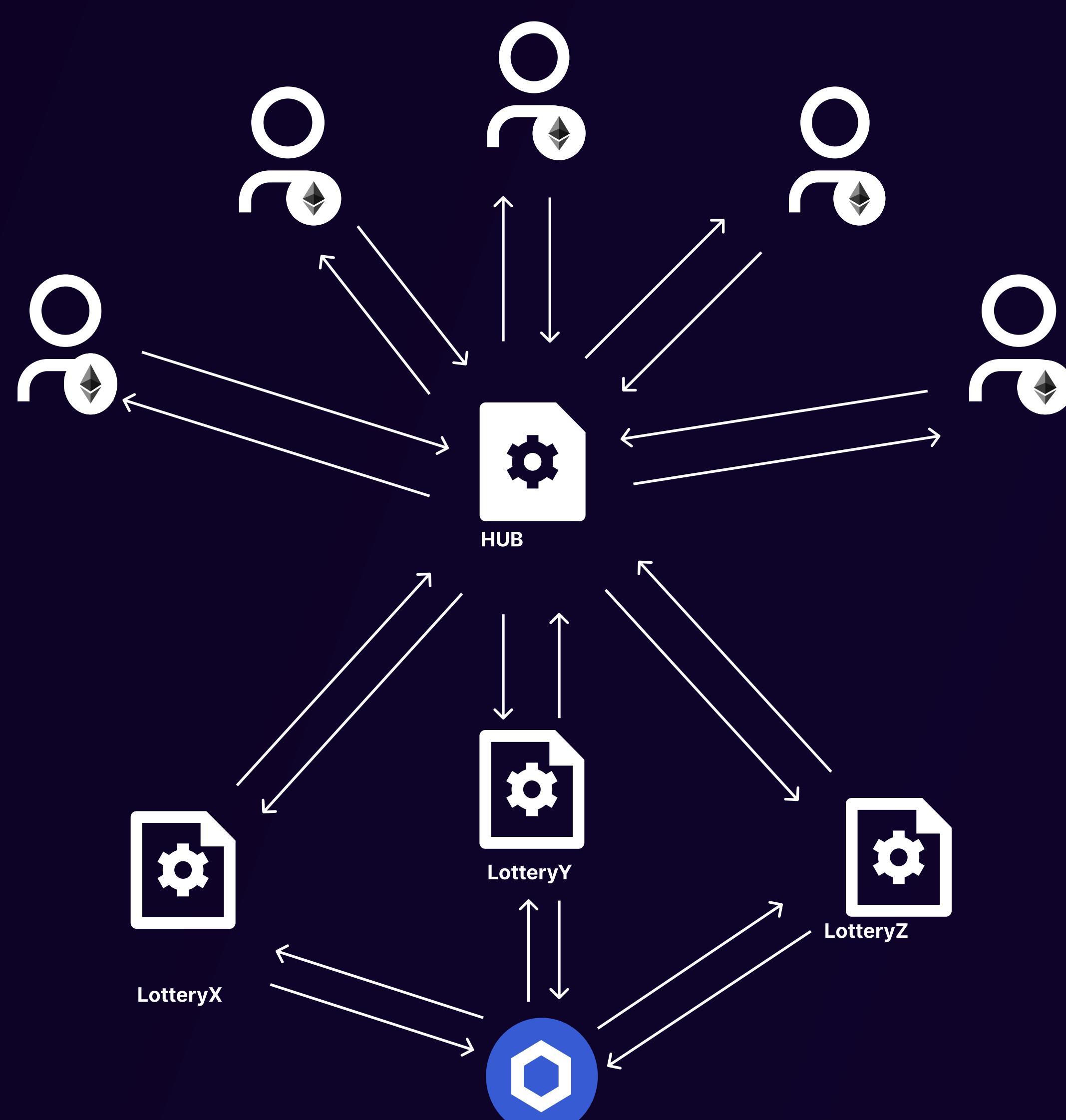
# WHAT?

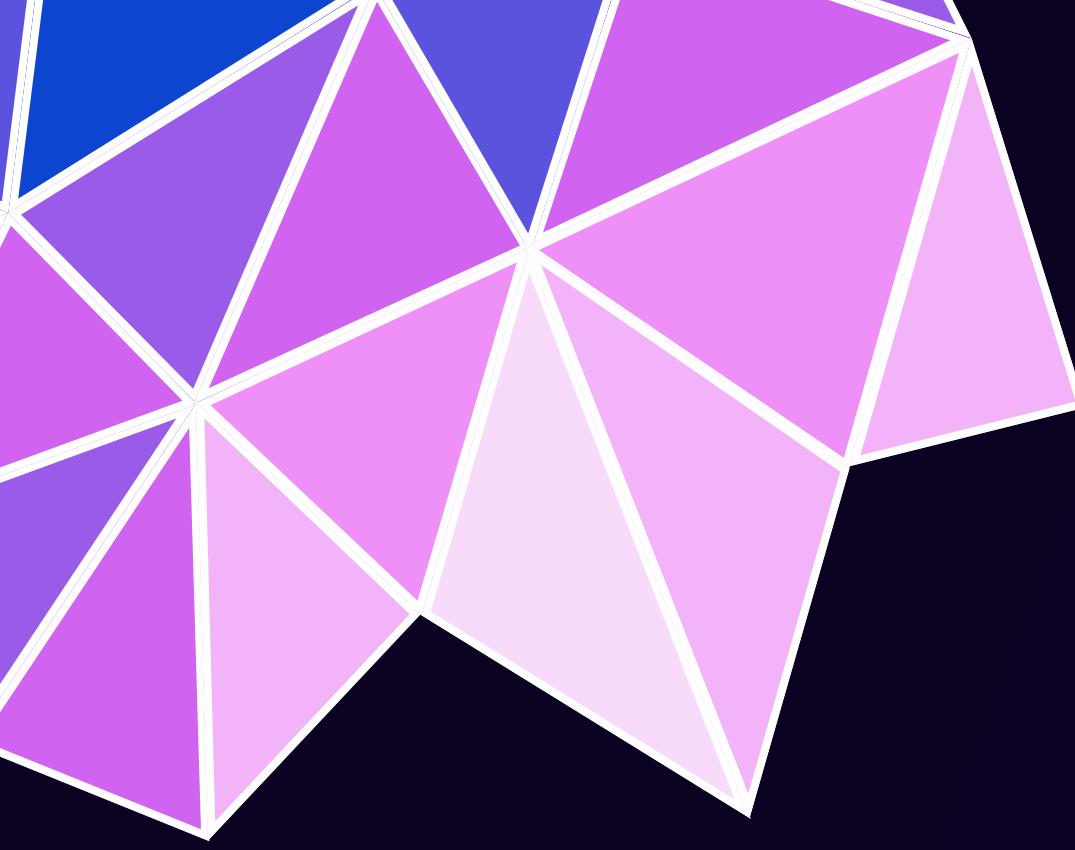
## Global Architecture

The different types of lotteries will be developed in different Smart Contracts. This means that we will have to manage different contract addresses to access the functionality of the site.

To solve this problem and to allow a simpler use of the platform it has been decided to use a 2-layer architecture. This way, users will only have to access a single contract (The Hub), able to modify all lotteries by typing its id.

Since it is not possible to calculate random numbers (due to the deterministic property of Ethereum), the Chainlink oracle will be used to calculate the random numbers. This way, the user will be able to verify that the winners are not chosen by the team.





## WHAT?

### Contracts Architecture

### Regular/Featured Lottery

Each lottery will store information about the current lottery and past lotteries, so the user will be able to access the current information and the information of past lotteries.

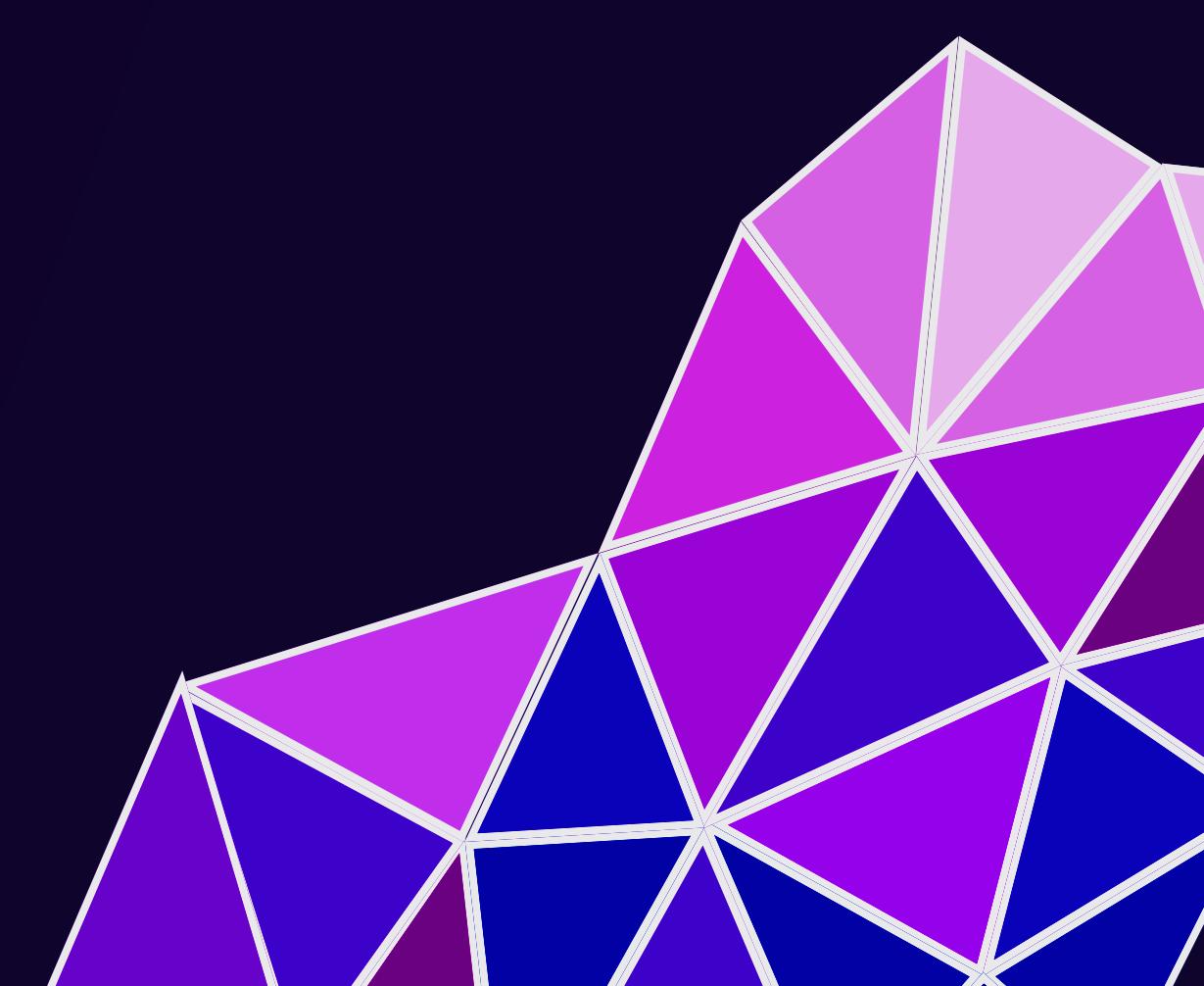
In addition, each lottery will have a set of methods to access its info and a set of methods to modify the lottery. The methods are:

- **Join:** Will add the user's participation after paying the price, in addition, the user will get an amount of CryptoLuckyTickets based on the participations purchased.

It may fail in case there are no more tickets available, the user has purchased all possible tickets, did not pay the correct amount or the lottery is not active.

- **Withdraw by winner:** Will allow the winner to withdraw the lottery prize.h

It will fail in case if you are not the winner.



## WHAT?

### Contracts Architecture Lottery

There will be several methods accessible by the team to manage the lotteries.

These methods will be :

Create Lottery: Create the next lottery from the data entered. Lotteries can only be started if the previous lottery has ended.

EndGame: End the current lottery and ask for the winning tickets to Oracle from ChainLink.

SetWinners: Send transaction to Chainlink Smart contract to generate the random number and set the winners from the winning tickets.

The Featured lotteries will have the same methods than the regular lotteries except that it can only be paid for with the corresponding rarity ticket, and the user will not receive a CryptoLuckyToken.

# **WHAT?**

## **Contracts Architecture**

### **Hub**

This contract will access all existing lotteries and will function as an intermediate layer and common access point for all of them, allowing for easier management of the system.

As in the lotteries, it will have a series of methods to access the information of each lottery and a series of methods to modify them.

## **Contracts Architecture**

### **Tokens**

The CryptoLuckyTokens contract will be used for the generation and burning of tokens by the lotteries. In total there will be 5 different tokens which are common, rare, epic, legendary and a last unknown. The variety of tokens will allow each user to access the featured lotteries that benefit them the most.

The generation of tokens will be limited to the sale of lottery tickets, and in turn, each ticket used to access a featured lottery will be burned when the lottery is over. With this system we will be able to control the amount of tickets on the market.