Evmos Momentum Hackathon

Radish

Revolutionary presale platform featuring decentralized liquidity pools and DAO governance

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Version 1.0

1. The problem

In the current WEB3 launchpad model, projects raise funds from investors and remain in full control over the liquidity Pool. Even if they lock the funds, after a certain amount of time, the project will always have the ability to withdraw liquidity. This leaves investors extremely vulnerable and doesn't fit with the idea of decentralization. It increases the number of malicious projects, because the entry barrier to scam users, is to simply present a potential idea, without the need to actually implement it.

Biggest ever rug pull in Solana ecosystem steals nearly $10 million

CRYPTOS | 8/20/2021 11:47:25 AM GMT

- The Solana blockchain crossed $2 billion in total value locked earlier today before the biggest rug pull in the project's history.
- Luna Yield, an ecological liquidity farming project, deleted their website, Twitter and Telegram handles and withdrew nearly $10 million in liquidity.
- SolPad, Solana's finance launchpad, recently hosted Luna Yield IDO on their platform, and the team has reportedly contacted a third party to investigate further.

Solana's price rally has slowed down after a two-week-long bullrun. Users fear a rug pull and loss of nearly $10 million as Luna Yield goes dark on social media.

Rug pull from Luna Yield impacts traders in SOL ecosystem, users unable to "unstake" funds

Earlier today, when the Luna Yield team took down the website and went offline on all social media, Twitter and Telegram handles, users moved to "unstake" funds from liquidity pools on the project. This move was

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These things happen regularly and discourage new investors.

2. The Solution

Our solution is a new platform featuring our innovative decentralized liquidity pools, enabling every single investor to take a share in the liquidity pool. This holds projects accountable for their actions, they now need to work in consultation with their investor base. If projects do not deliver, or simply vanish, investors can withdraw the liquidity they provided drastically minimizing their risk of a total loss.

The two approaches:

First a quick recap, currently investors sent USDT/ETH/EVMOS etc. to create a pair with the project's native asset. Once the presale is successful, the pair gets sent into the liquidity pool and the project receives the LP-tokens. They remain in control and nobody except them can withdraw liquidity.

We need a new procedure.

There are two approaches on how to go about such venture. Investors provide a certain amount of tokens, and in addition to the asset they normally receive, they also directly get a share in the liquidity pool. The investment size will reflect the share in the pool. We call this "true ownership", because you alone can make a decision whether to withdraw the liquidity or not. The second approach is a **DAO voting mechanism**. People still get a share in the

liquidity pool, but instead of simply withdrawing their share of the liquidity, they can start a vote. Every investor has the ability to start a vote to request the withdraw of some or all liquidity, if the vote is successful everyone can collect their share.

We prefer the second approach, because this eliminates selfish behavior. People could be inclined to withdraw their share of the pair and sell it off. With a DAO investors can, as a group, decide how the project should move forward, giving them more leverage to communicate on how the project should move forward.

3. How we built it

Our background is roughly two years of professional work in the WEB3 space, mainly working with the EVM ecosystem. We first started by creating our "garden", a solidity smart contract that manages all presales, every one being a newly planted "radish". We took ERC20, Ownable and Reentrancyguard solidity contracts as our baseline. The Reentrancyguard prevents people from "reentry", preventing them from draining the smart contract.

On The frontend we worked with React and daisyui for our general style. Through a web3 injection we enable wallet connection to our website, meaning users can now directly connect with their metamask to our platform, making a login system redundant. We then created 4 main categories.

- Explorer: to browse all active presales
- Launch Project: to launch a new presale
- Manage Project: Manage the presale your wallet created
- Funded Projects. Manage all presale you took part in

Through our backend we integrated the smart contracts. We then deployed our smart contract to the Evmos testnet and made our website live.

Creating a project is straight forward, people either give us their token address or create one with us. Then they specify the following arguments, hard- & soft-cap, min- & max-contribution, start- & end -time and lock duration. This information will be passed to our backend to create a presale smart contract, which handles everything on chain, from initial creation to liquidity pool creation.

4. A New incentive

The decentralized liquidity marks a paradigm shift. To further strengthen our idea, we created:

The make your holders stay program!

Through this we want to further incentivize the active participation in the liquidity pool and make it even more attractive to current owners or attract new ones after the presale has concluded. We will provide you with a piece of code that adds a fee to all transactions and will then be funneled into the liquidity pool.

Here is a simple step by step guide:

- Implement the following code into your token
- After you launched, add the radish address into the smart contract
- Set a fee (We recommend 1-3 percent)
- Now every Liquidity owner will benefit from an additional stream of income
- (For users) simply claim your bonus once every week

Note: This is only possible for newly formed projects, but we are already working on a solution for a later integration.

5. What's next for Radish

We now have a proof of concept live on the Evmos testnet. People can create, manage and participate in presales.

To take things further we will continue our extensive testing and move our platform from test- to main-net. From there we will onboard our first projects and create incentives for early adopters to use our platform. Creating the first traffic for our platform.

Over the course of the next 4 months, we will finalize our business plan to be self-sustainable. We want to keep the entry barrier low for new projects to enter, so we decided to keep a small entry price for creating a new project and only charge additional fees if a project is successful. Thus, minimizing the risk for new projects to create a presale on our platform.

6. Platform restrictions

To keep things in order we want to briefly mention a few restrictions we implemented. Presales should only create once everything is ready, so the start time of an upcoming presale cannot be more than 7 days in the future. The funding period itself also cannot be longer then 7 days.

If a presale is successful, the owner has 7 days to launch the project. Otherwise, everybody can withdraw the tokens they funded.

We will implement more safety features as we move on and once, we have collected some feedback from testers.

7. Summary

To wrap it up I want to give a quick summary of our platform by writing down the cycle a new project on our Platform would go through.

First you connect with your wallet to our website. Then you click on "launch project" and fill in all the necessary information's. Then you can "plant your radish" and once the start time is true, people can contribute to your project. Once either the hard cap is reached or soft cap plus end time, you have 7 days to launch it. Otherwise, your project failed and people can withdraw their investments.

Once you launch, the Evmos + your token gets paired and added to the diffusion LP. From their people have to wait until the lock time is over, then they can start two typed of votes. First, they are able to vote the withdraw their liquidity. Secondly, they can extend the lock period, meaning they also cannot start another withdraw until the lock period is over. In every case, the liquidity is owned by all induvial people that contributed during the presale and always belongs to them.