



DESSERT
FINANCE

Epoch (EPOCH)

BEP-20 Audit

Performed at block **17632704**

PERFORMED BY DESSERT FINANCE
FOR CONTRACT ADDRESS: **0xC5E791Ed5CC9dBD9408D6D6e148d6165808244e9**

INITIAL DISCLAIMER

Dessert Finance provides due-diligence project audits for various projects. Dessert Finance in no way guarantees that a project will not remove liquidity, sell off team supply, or otherwise exit scam.

Dessert Finance does the legwork and provides public information about the project in an easy-to-understand format for the common person.

Agreeing to an audit in no way guarantees that a team will not remove *all* liquidity (“Rug Pull”), remove liquidity slowly, sell off tokens, quit the project, or completely exit scam. There is also no way to prevent private sale holders from selling off their tokens. It is ultimately your responsibility to read through all documentation, social media posts, and contract code of each individual project to draw your own conclusions and set your own risk tolerance.

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Contract Code Audit – Token Overview



BEP-20 Contract Code Audit – Overview

Dessert Finance was commissioned to perform an audit on Epoch (EPOCH)

```
Submitted for verification at BscScan.com on 2021-01-02
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

EPOCH - A hybrid governance token for Epoch NFT Marketplace by Essential Goods
Earn passive income with 20% 800 Rewards
Epoch NFT Marketplace: https://epoch.digital
Ecosystem Docs: https://essentialgoods.netlify.com
Twitter: https://twitter.com/epochnft
Telegram: https://t.me/the_essential_goods

Anti-whale mechanic
Anti-bot mechanic
Buy taxes cannot be set more than 20%
Sell taxes cannot be set more than 20%

pragma solidity ^0.8.0;

library SafeMath {
    /**
     * @dev Returns the addition of two unsigned integers, reverting on
     * overflow.
     * Counterpart to Solidity's '+' operator.
     * Requirements:
     * - Addition cannot overflow.
     */
    function add(uint256 a, uint256 b) internal pure returns (uint256) {
        uint256 c = a + b;
        require(c == a + b, "SafeMath: addition overflow");
        return c;
    }

    /**
     * @dev Returns the subtraction of two unsigned integers, reverting on
     * overflow (when the result is negative).
     * Counterpart to Solidity's '-' operator.
     * Requirements:
     * - Subtraction cannot overflow.
     */
    function sub(uint256 a, uint256 b) internal pure returns (uint256) {
        return a - b;
    }

    /**
     * @dev Returns the subtraction of two unsigned integers, reverting with custom message on
     * overflow (when the result is negative).
     * Counterpart to Solidity's '-' operator.
     * Requirements:
     * - Subtraction cannot overflow.
     */
    function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
        require(b == a - (a - b), errorMessage);
        return a - b;
    }
}
```

Contract Address

0xC5E791Ed5CC9dBD9408D6D6e148d6165808244e9

TokenTracker

Epoch (EPOCH)

Contract Creator

0x7c617d44581aff30f25e60eb04579201dc9ab8f5

Source Code

Contract Source Code Verified

Contract Name

Epoch

Other Settings

default evmVersion, MIT

Compiler Version

v0.8.9+commit.e5eed63a

Optimization Enabled

Yes with 200 runs

Code is truncated to fit the constraints of this document.

[The code in its entirety can be viewed here.](#)

The contract code is **verified** on BSCScan.

BEP-20 Contract Code Audit – Vulnerabilities Checked

Vulnerability Tested	AI Scan	Human Review	Result
Compiler Errors	Complete	Complete	✓ Low / No Risk
Outdated Compiler Version	Complete	Complete	✓ Low / No Risk
Integer Overflow	Complete	Complete	✓ Low / No Risk
Integer Underflow	Complete	Complete	✓ Low / No Risk
Correct Token Standards Implementation	Complete	Complete	✓ Low / No Risk
Timestamp Dependency for Crucial Functions	Complete	Complete	✓ Low / No Risk
Exposed _Transfer Function	Complete	Complete	✓ Low / No Risk
Transaction-Ordering Dependency	Complete	Complete	✓ Low / No Risk
Unchecked Call Return Variable	Complete	Complete	✓ Low / No Risk
Use of Deprecated Functions	Complete	Complete	✓ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✓ Low / No Risk
State Variable Default Visibility	Complete	Complete	✓ Low Risk
Deployer Can Access User Funds	Complete	Complete	✓ Low / No Risk

The contract code is verified on BSCScan.

The vulnerabilities listed above were not found in the token's Smart Contract.

Contract Code Audit – Contract Ownership

Contract Ownership has not been renounced at the time of Audit

The contract ownership is not currently renounced.

We have placed the contract owner address below for your viewing:

[0xaa9bbd168f6e2a2171eacc12ace144bd66aca290](https://etherscan.io/address/0xaa9bbd168f6e2a2171eacc12ace144bd66aca290)

This contract is able to be locked. This lock will provide the same lockdown of features as renouncing ownership however once the lock expires, all of the ownership functions can be called as normal. The maximum allowable lock period is 15 days, once expired owner can regain access to functions or choose to lock the contract for an additional 15 days"



```
function getUnlockTime() public view returns (uint256) {
    return _lockTime;
}

//Locks the contract for owner for the amount of time provided
function lock(uint256 time) public virtual onlyOwner {
    _lockTime = block.timestamp + time;
    require((_lockTime - block.timestamp) <= 1300000, "Can not set lock for more than 15 days");
    _previousOwner = owner;
    _owner = address(0);
    emit OwnershipTransferred(_owner, address(0));
}

//Unlocks the contract for owner when _lockTime is exceeds
function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock the token contract");
    require(block.timestamp > _lockTime, "lock period is not over yet");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

Contract Code Audit – Owner Accessible Functions

Function Name	Parameters	Visibility	Audit Notes
renounceOwnership	uint256 renouceCode	public virtual	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
transferOwnership	address newOwner	public virtual	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
lock	uint256 time	public virtual	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateMaxWalletAmount	uint256 newNum	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateMaxAmount	uint256 newNum	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
excludeFromMaxTransaction	address updAds, bool isEx	public	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateBlackList	address updAds, bool blacklist	public	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
adminRescueTokens	address token, uint256 amount	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
setWhiteListAMM	address ammAddress, bool isWhiteListed	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
enableTrading		external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateSwapEnabled	bool enabled	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateSwapTokensAtAmount	uint256 newAmount	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateDividendTracker	address newAddress	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateUniswapV2Router	address newAddress	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateDividendUniswapV2Router	address newAddress	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
excludeFromFees	address account, bool excluded	public	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
excludeFromDividends	address account	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
includeInDividends	address account	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.

The functions listed above can be called by the contract owner.

If contract ownership has been renounced there is no way for the above listed functions to be called.

Contract Code Audit – Owner Accessible Functions

Function Name	Parameters	Visibility	Audit Notes
setAutomatedMarketMakerPair	address pair, bool value	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
setDefaultToken	address newdefault	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
removeLimits		external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
disableTransferDelay		external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateWallets	address newecosystemWallet, address newmarketingWallet, address newbuybackWallet	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
rescueBNB	uint256 weiAmount	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateBuyFees	uint256 _EcosystemFee, uint256 _rewardsFee, uint256 _buybackFee, uint256 _marketingFee	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateSellFees	uint256 _EcosystemFee, uint256 _rewardsFee, uint256 _buybackFee, uint256 _marketingFee	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateGasForProcessing	uint256 newValue	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
updateClaimWait	uint256 claimWait	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
setWhitelistToken	address tokenAddress, bool isWhitelisted	public	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
addPresaleAddressForExclusions	address _presaleAddress, address _presaleRouterAddress	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.
burnFromContract	uint256 amount	external	onlyOwner modifier is detected. Owner can call this function if the contract is not renounced.

The functions listed above can be called by the contract owner.

If contract ownership has been renounced there is no way for the above listed functions to be called.

Liquidity Ownership – Locked / Unlocked

No locked liquidity information has been found.



This page will contain links to locked liquidity for the project if we are able to locate that information. Locked liquidity information was not found on the project's website.

Contract Code Audit – Mint Functions

This Contract Cannot Mint New EPOCH Tokens.



We do understand that sometimes mint functions are essential to the functionality of the project.

A mint function was not found in the contract code.

Contract Transaction Fees

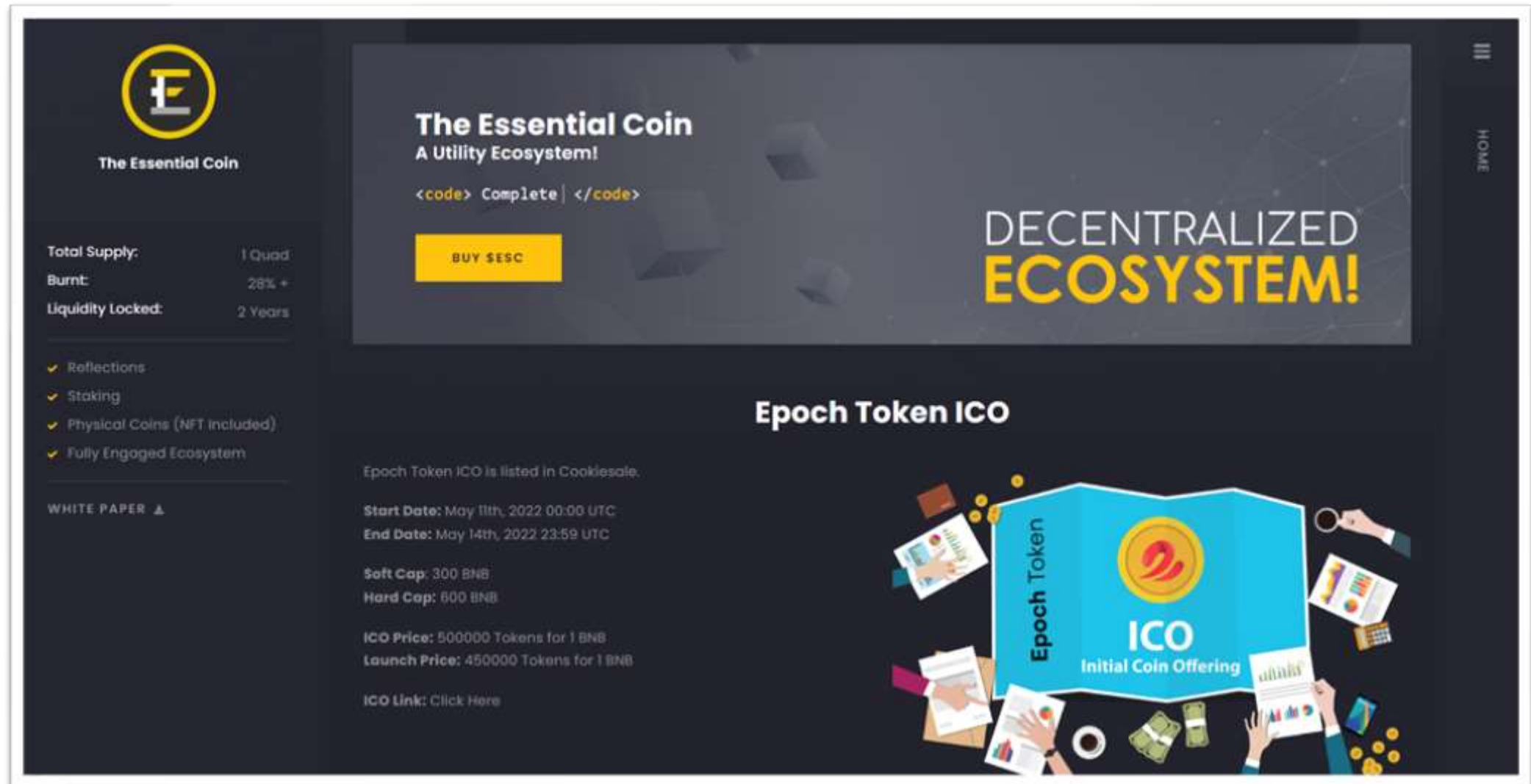
The transaction fees (“tax”) listed below are the fees associated with trading. These fees are taken from every buy and sell transaction unless otherwise stated. The contract owner has the ability to change the transaction fees however they are unable to alter buy fees above 20% and are unable to set sell fees above 25%. This is hard-coded and cannot be changed.

```
function updateBuyFees(uint256 _EcosystemFee, uint256 _rewardsFee, uint256 _buybackFee, uint256 _marketingFee) external onlyOwner {
    buyEcosystemFee = _EcosystemFee;
    buyRewardsFee = _rewardsFee;
    buyBuybackFee = _buybackFee;
    buyMarketingFee = _marketingFee;
    buyTotalFees = buyRewardsFee + buyEcosystemFee + buyBuybackFee + buyMarketingFee;
    require(buyTotalFees <= 20, "Total fee should not exceed 20%");
}

function updateSellFees(uint256 _EcosystemFee, uint256 _rewardsFee, uint256 _buybackFee, uint256 _marketingFee) external onlyOwner {
    sellEcosystemFee = _EcosystemFee;
    sellRewardsFee = _rewardsFee;
    sellBuybackFee = _buybackFee;
    sellMarketingFee = _marketingFee;
    sellTotalFees = sellRewardsFee + sellEcosystemFee + sellBuybackFee + sellMarketingFee;
    require(sellTotalFees <= 25, "Total fee should not exceed 25%");
}
```

Website Part 1 – Overview

www.theessentialcoin.org



Above images are actual snapshots of the current live website of the project.

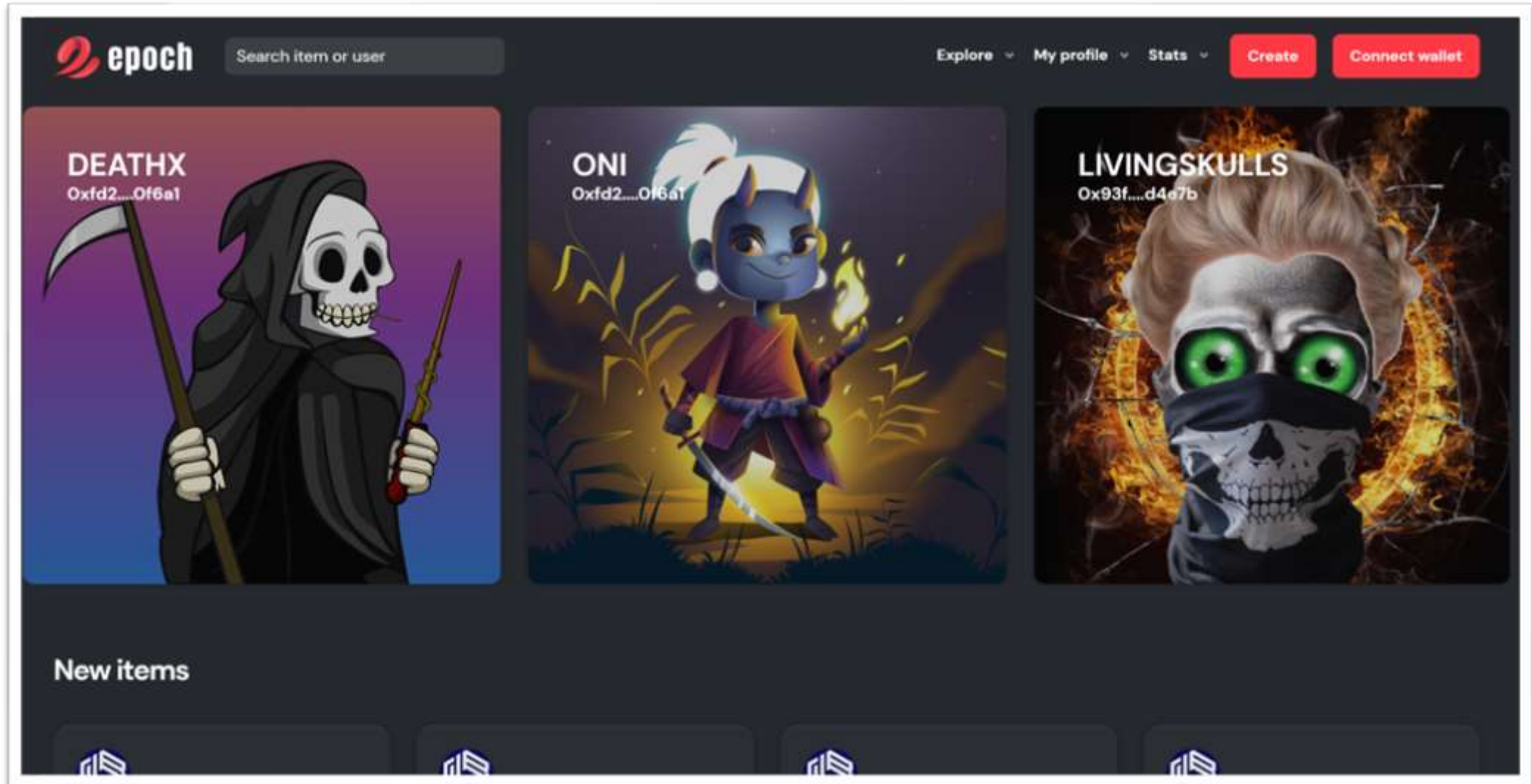
Website was registered on 11/20/2021, registration expires 11/20/2024.

✓ This meets the 3 year minimum we like to see on new projects.



Alternate Website– Overview

www.epoch.digital

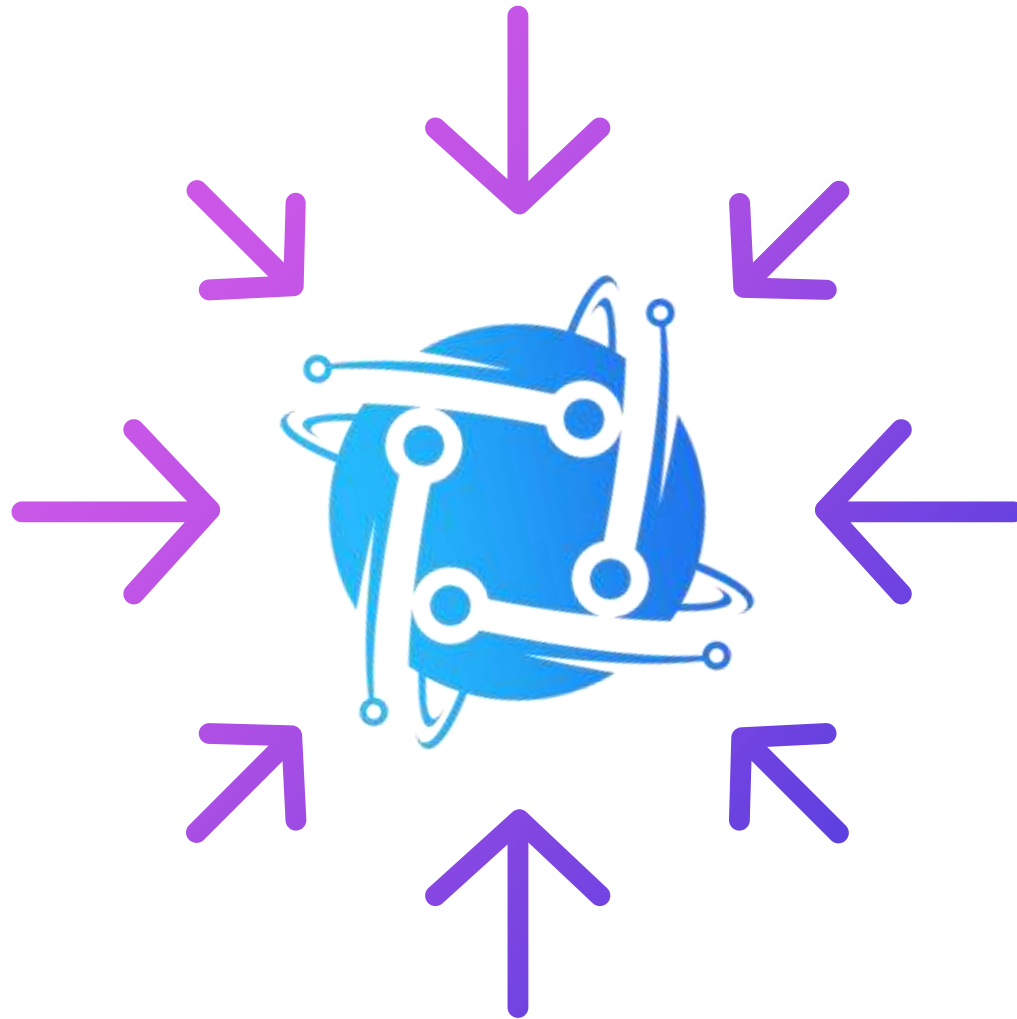


Above images are actual snapshots of the current live website of the project.

Website was registered on 04/25/2021, registration expires 04/25/2023.



Website Part 2 – Checklist



- ✓ Mobile Friendly
- ✓ No JavaScript Errors
- ✓ Spell Check
- ✓ SSL Certificate

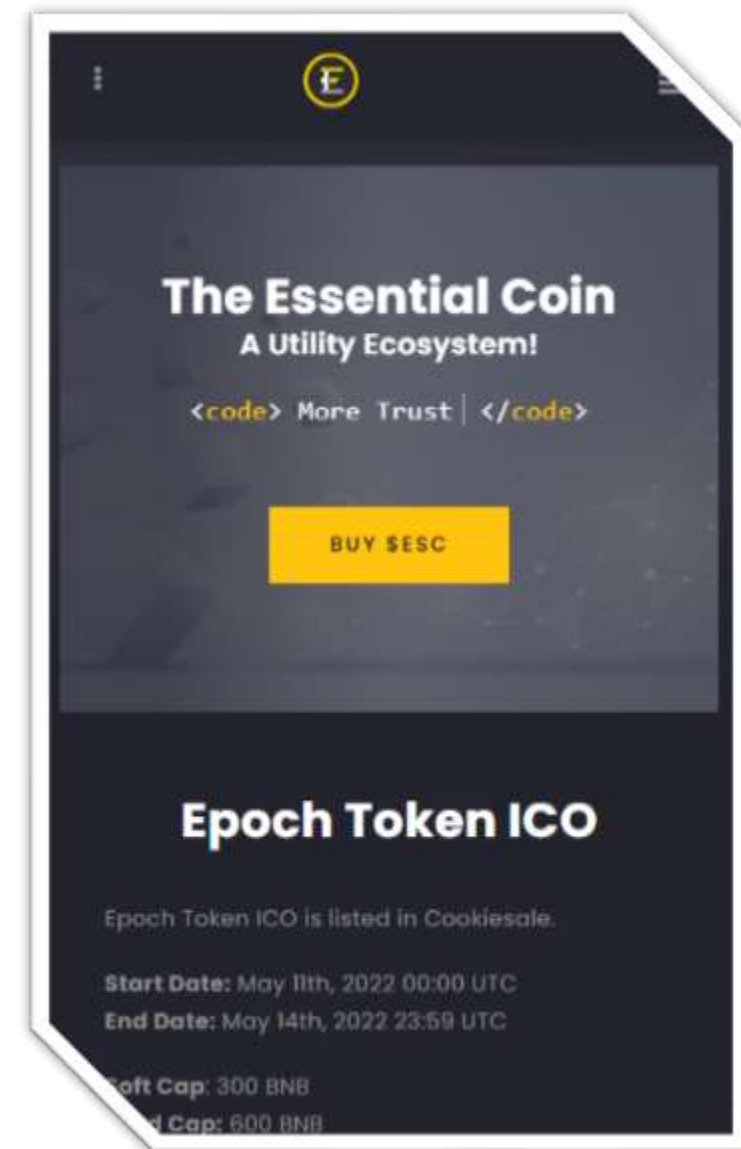
The website contained no JavaScript errors. No typos, or grammatical errors were present, and we found a valid SSL certificate allowing for access via https.

No additional issues were found on the website.

Website Part 3 – Responsive HTML5 & CSS3

No issues were found on the Mobile Friendly check for the website. All elements loaded properly and browser resize was not an issue. The team has put a considerable amount of thought and effort into making sure their website looks great on all screens.

No severe JavaScript errors were found. No issues with loading elements, code, or stylesheets.



Website Part 4 (GWS) – General Web Security



SSL CERTIFICATE

A valid SSL certificate was found. Details are as follows:

Offered to: theessentialcoin.org

Issued by: cPanel, Inc

Valid Until: 7/21/2022



CONTACT EMAIL

A valid contact email was found on the official website. Contact email is listed as shown below:

[Contact](mailto:info@theessentialcoin.org)

info@theessentialcoin.org



SPAM / MALWARE / POPUPS

No malware found

No injected spam found

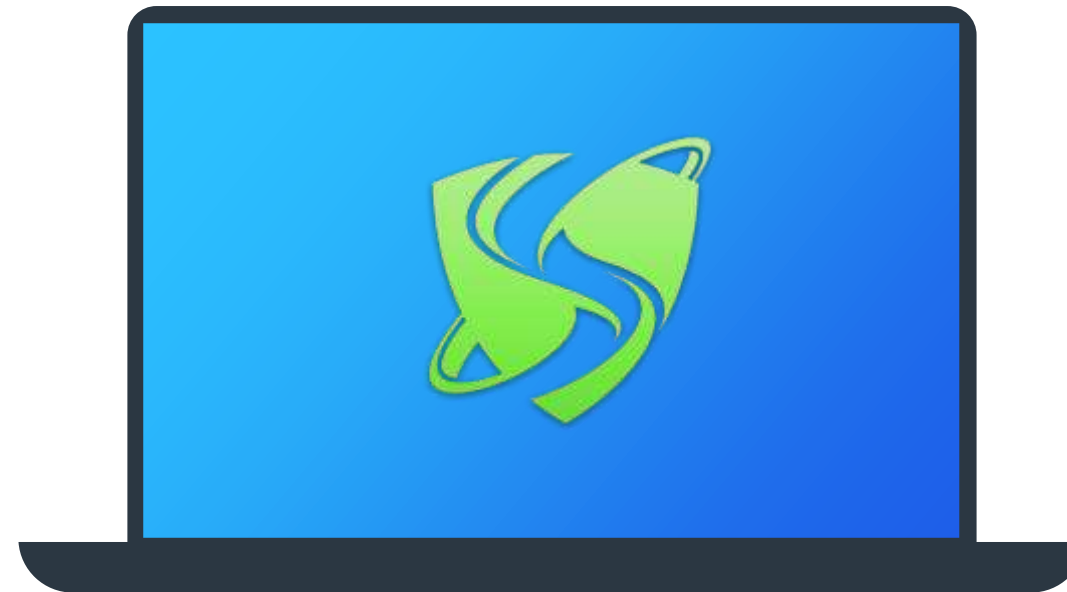
No internal server errors

No popups found

Domain is marked clean by Google, McAfee, Sucuri Labs, & ESET



Social Media



We were able to locate a variety of Social Media networks for the project.

All links have been conveniently placed below.



[Twitter](#)



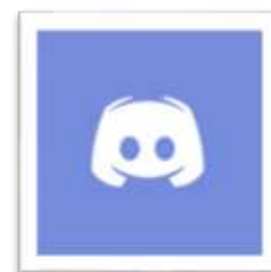
[Telegram](#)



[Tiktok](#)



[Reddit](#)



[Discord](#)



[Facebook](#)



[YouTube](#)

✓ **At least 3 social media networks were found.**

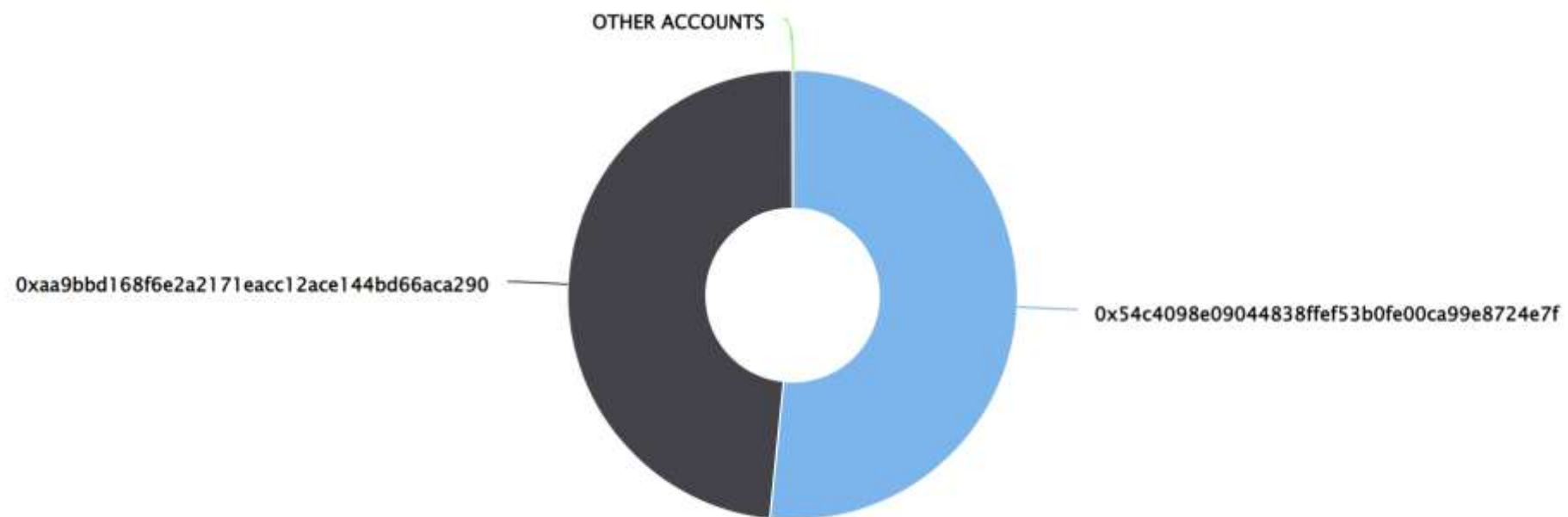
Top Token Holders

The entire supply was in one wallet at the time of audit. We expect this to change as the project goes through initial distribution phases. Please use the link below to view the most up-to-date holder information.

[Click here to view the most up-to-date list of holders](#)

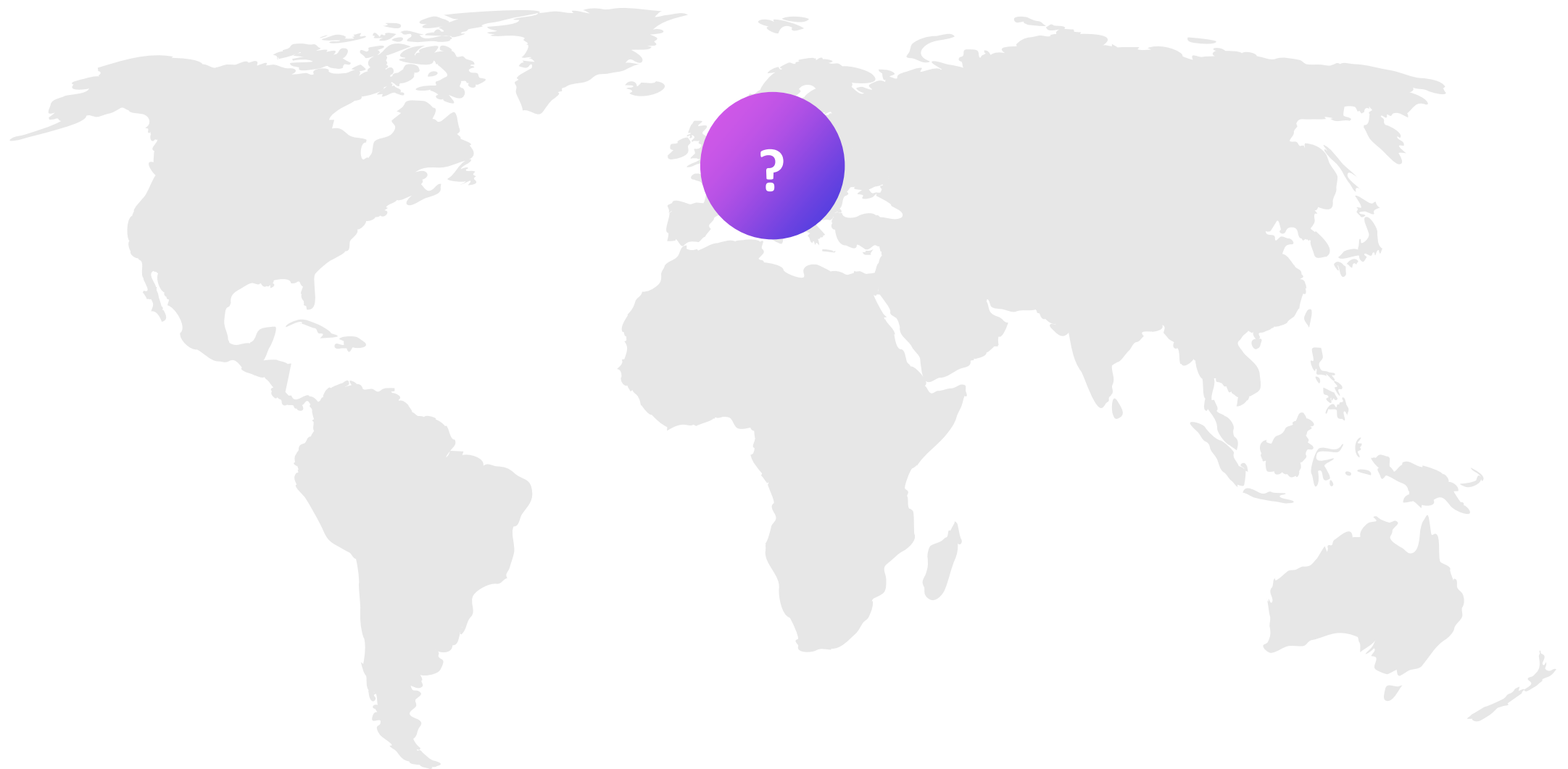
Epoch Top 100 Token Holders

Source: BscScan.com



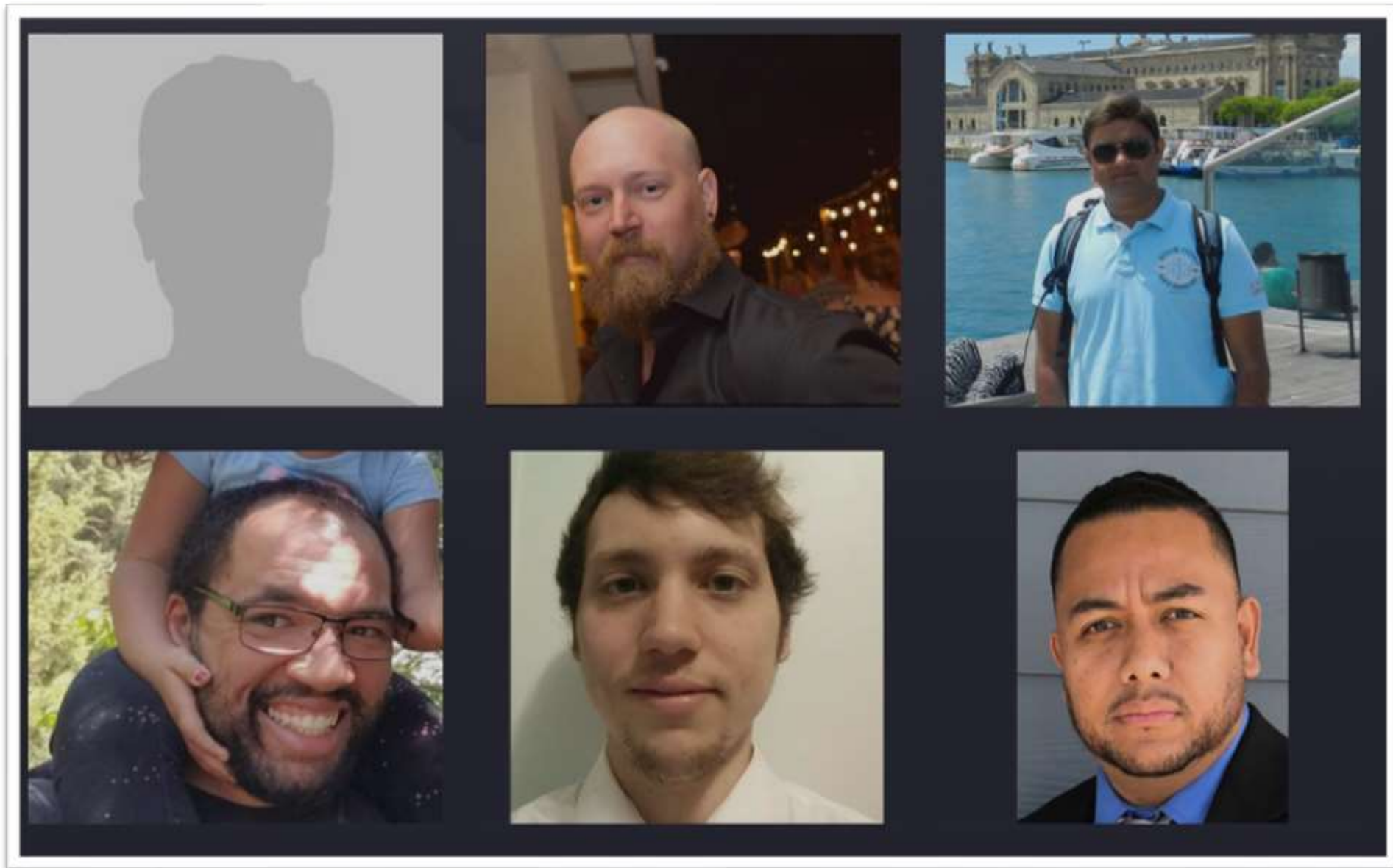
Location Audit

We were unable to identify a primary location for the project at this time or a location has not been declared.



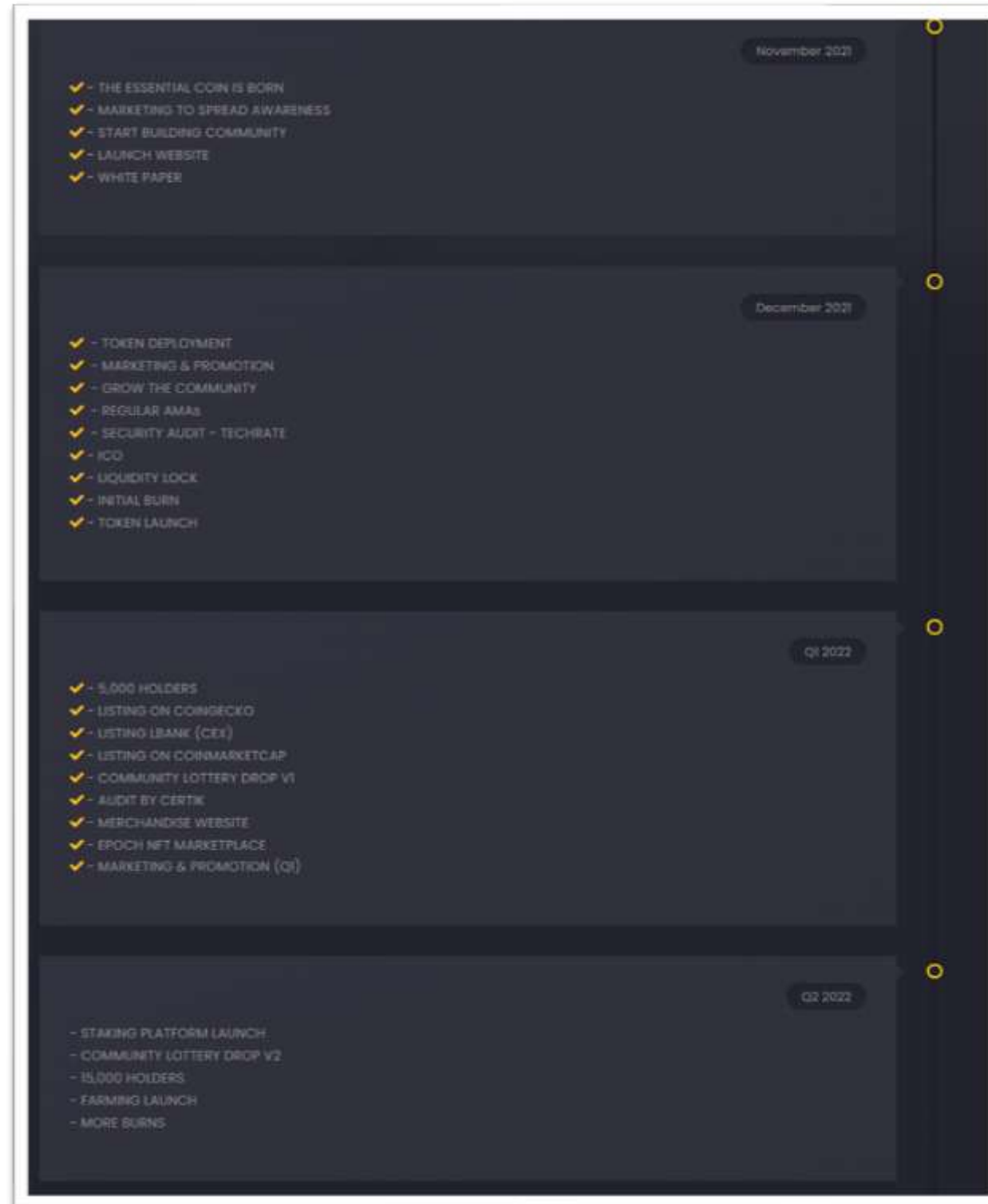
Team Overview

The following information about the team has been found on the projects website.



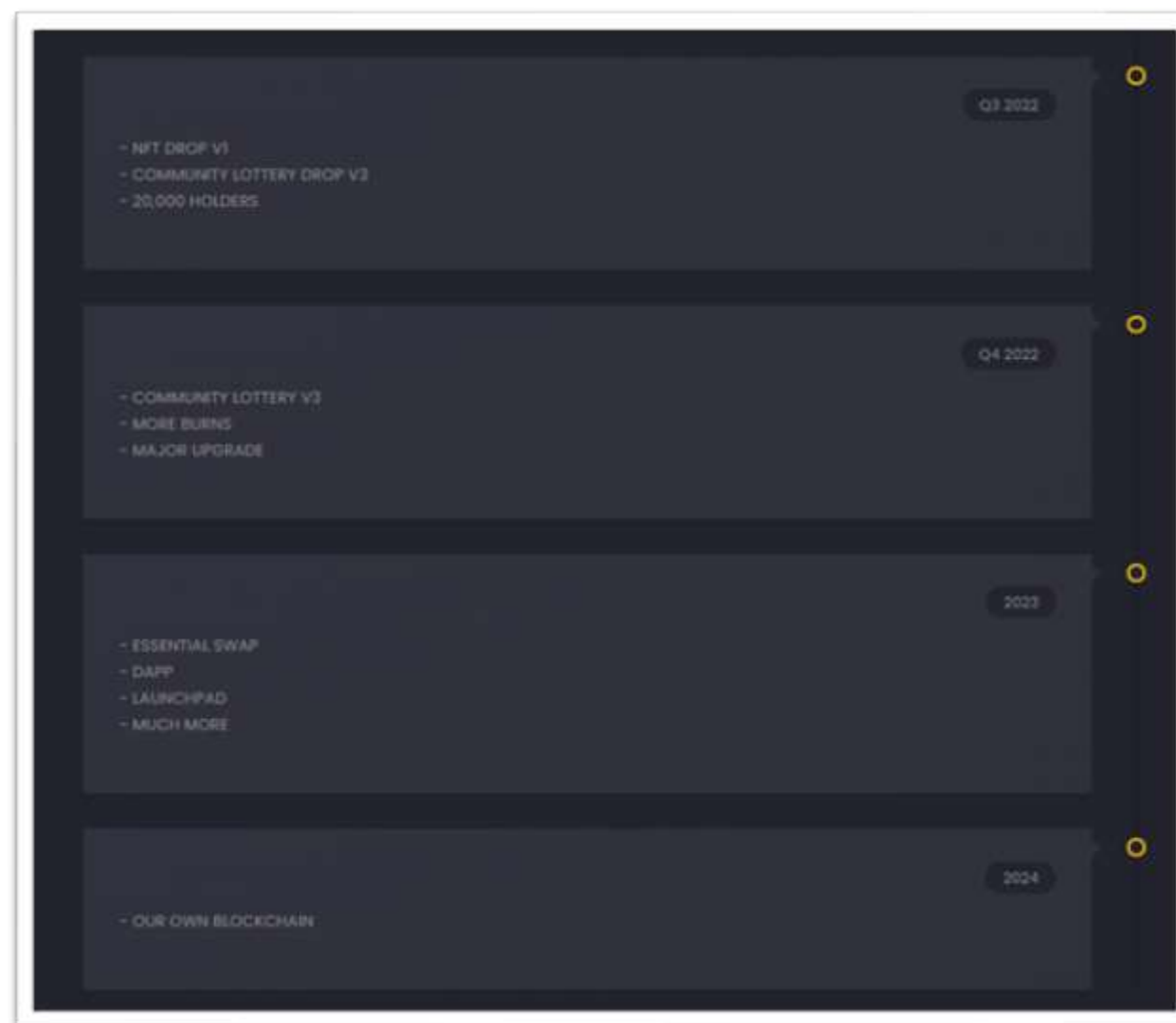
Roadmap

A roadmap was found on the official website, we have conveniently placed it on this page for your viewing.



Roadmap

A roadmap was found on the official website, we have conveniently placed it on this page for your viewing.



Disclaimer



The opinions expressed in this document are for general informational purposes only and are **not intended to provide specific advice or recommendations for any individual or on any specific investment**. It is only intended to provide education and public knowledge regarding projects. This audit is only applied to the type of auditing specified in this report and the scope of given in the results. Other unknown security vulnerabilities are beyond responsibility. Dessert Finance only issues this report based on the attacks or vulnerabilities that already existed or occurred before the issuance of this report. For the emergence of new attacks or vulnerabilities that exist or occur in the future, Dessert Finance lacks the capability to judge its possible impact on the security status of smart contracts, thus taking no responsibility for them. The smart contract analysis and other contents of this report are based solely on the documents and materials that the contract provider has provided to Dessert Finance or was publicly available before the issuance of this report (issuance of report recorded via block number on cover page), if the documents and materials provided by the contract provider are missing, tampered, deleted, concealed or reflected in a situation that is inconsistent with the actual situation, or if the documents and materials provided are changed after the issuance of this report, Dessert Finance assumes no responsibility for the resulting loss or adverse effects. Due to the technical limitations of any organization, this report conducted by Dessert Finance still has the possibility that the entire risk cannot be completely detected. Dessert Finance disclaims any liability for the resulting losses.

Dessert Finance provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Even projects with a low risk score have been known to pull liquidity, sell all team tokens, or exit-scam. Please exercise caution when dealing with any cryptocurrency related platforms.

The final interpretation of this statement belongs to Dessert Finance.

Dessert Finance highly advises against using cryptocurrencies as speculative investments and they should be used solely for the utility they aim to provide.



**Thank
You**

DESSERT FINANCE PROJECT AUDIT HAS BEEN COMPLETED FOR EPOCH (EPOCH) AT BLOCK NUMBER: **17632704**

THIS AUDIT IS ONLY VALID IF VIEWED ON [HTTPS://WWW.DSSERTSWAP.FINANCE](https://www.dessertswap.finance)

www.dessertswap.finance
<https://t.me/dessertswap>