

Advanced Manual **Smart Contract Audit**

September 23, 2022

Audit requested by



UniWswap Referral

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Audit Summary

Audit Scope

Project Name	UniWswap Referral
Website	https://uniwswap.com/
Blockchain	Ethereum PoW
Smart Contract Language	Solidity
Contract Address	-
Audit Method	Static Analysis, Manual Review
Date of Audit	23 September 2022

This audit report has been prepared by Coinsult's experts at the request of the client. In this audit, the results of the static analysis and the manual code review will be presented. The purpose of the audit is to see if the functions work as intended, and to identify potential security issues within the smart contract.

The information in this report should be used to understand the risks associated with the smart contract. This report can be used as a guide for the development team on how the contract could possibly be improved by remediating the issues that were identified.

Tokenomics

–

Source Code

Coinsult was commissioned by UniWswap Referral to perform an audit based on the following code:

<https://github.com/uniwswap/uniw-contracts/blob/main/masterchef/Referreal.sol>

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Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.





The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

Global Overview

Manual Code Review

In this audit report we will highlight the following issues:

Vulnerability Level	Total	Pending	Acknowledged	Resolved
 Informational	0	0	0	0
 Low-Risk	1	1	0	0
 Medium-Risk	0	0	0	0
 High-Risk	0	0	0	0

● **Low-Risk:** Could be fixed, will not bring problems.

Redundant Statements

Detect the usage of redundant statements that have no effect.

```
function _msgData() internal view virtual returns (bytes memory) {  
    this; // silence state mutability warning without generating bytecode - see https://github.com/ethers-io/ethers.js/issues/1316  
    return msg.data;  
}
```

Recommendation

Remove redundant statements if they congest code but offer no value.

Exploit scenario

```
contract RedundantStatementsContract {  
  
    constructor() public {  
        uint; // Elementary Type Name  
        bool; // Elementary Type Name  
        RedundantStatementsContract; // Identifier  
    }  
  
    function test() public returns (uint) {  
        uint; // Elementary Type Name  
        assert; // Identifier  
        test; // Identifier  
        return 777;  
    }  
}
```

Each commented line references types/identifiers, but performs no action with them, so no code will be generated for such statements and they can be removed.

Other Owner Privileges Check

Coinsult lists all important contract methods which the owner can interact with.

⚠ Owner can change operator

Notes

Notes by UniWswap Referral

No notes provided by the team.

Notes by Coinconsult

 No notes provided by Coinconsult

Contract Snapshot

This is how the constructor of the contract looked at the time of auditing the smart contract.

```
contract UNIWReferral is Ownable {
    using SafeBEP20 for IBEP20;

    address public operator;
    // user address => referrer address
    mapping(address => address) public referrers;
    // referrer address => referrals count
    mapping(address => uint256) public referralsCount;
    // referrer address => total referral commissions
    mapping(address => uint256) public totalReferralCommissions;

    event ReferralRecorded(address indexed user, address indexed referrer);
    event ReferralCommissionRecorded(address indexed referrer, uint256 commission);
    event OperatorUpdated(address indexed _oldOperator, address _newOperator);

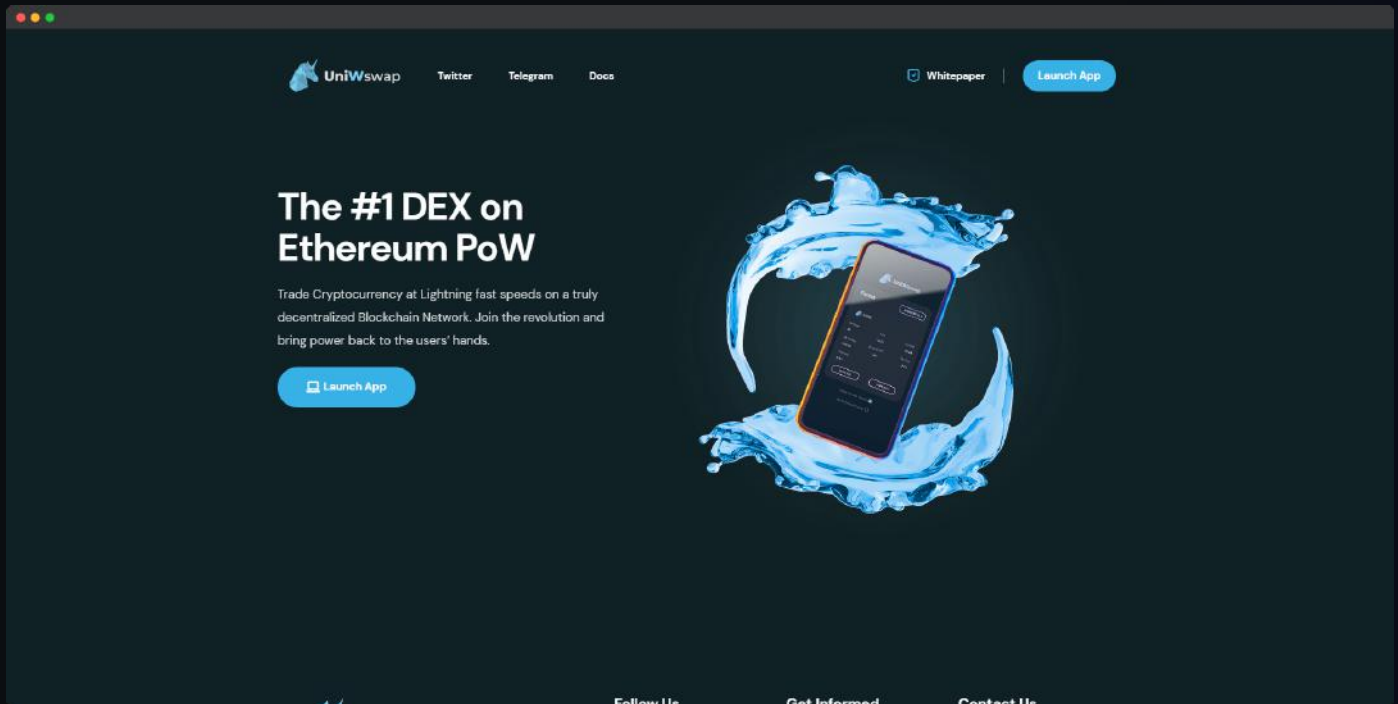
    modifier onlyOperator {
        require(operator == _msgSender(), "Operator: caller is not the operator");
        _;
    }

    function isReferralContract() public pure returns(bool) {
        return true;
    }

    function recordReferral(address _user, address _referrer) public onlyOperator {
        if (_user != address(0)
            && _referrer != address(0)
            && _user != _referrer
            && referrers[_user] == address(0)
        ) {
            referrers[_user] = _referrer;
            referralsCount[_referrer] += 1;
            emit ReferralRecorded(_user, _referrer);
        }
    }
}
```

Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



Type of check	Description
Mobile friendly?	● The website is mobile friendly
Contains jQuery errors?	● The website does not contain jQuery errors
Is SSL secured?	● The website is SSL secured
Contains spelling errors?	● The website does not contain spelling errors

Certificate of Proof

● Not KYC verified by Coinsult

UniWswap Referral

Audited by Coinsult.net



Date: 23 September 2022

✓ Advanced Manual Smart Contract Audit

End of report **Smart Contract Audit**

Request your smart contract audit / KYC

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