



SPYWOLF

Security Audit Report



Audit prepared for
NeverLetGo.AI

Completed on
May 17, 2024

@SPYWOLFNETWORK



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SPYWOLF.CO





KEY RESULTS

Cannot mint new tokens	N/A
Cannot pause trading (honeypot)	Passed
Cannot blacklist an address	Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	Passed
No hidden ownership	Passed
Cannot change the router	Passed
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	Passed
Cannot set max tx amount below 0.05% of total supply	N/A
The contract cannot be self-destructed by owner	Passed

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused





OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

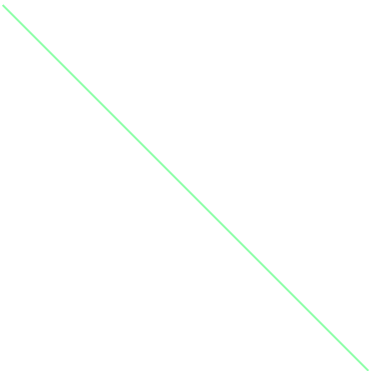
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NEVER LET GO



PROJECT DESCRIPTION

According to their website:

Neverletgo.ai is a blockchain-powered adult entertainment platform designed to offer a unique user experience. Users can chat and interact with dream companions. Users can also opt to BECOME the characters complete with personal pages.

Release Date: Launched at April 24th, 2024

Category: Adult/AI





MainEngine

Token Name N/A	Symbol N/A
Contract Address 0xf236C44630b263239b9bE30Ac5506448514b0a39	
Network Binance Smart Chain	Language Solidity
Deployment Date May 17, 2024	Contract Type Game engine
Total Supply N/A	Status Launched

TAXES

Buy Tax
none

Sell Tax
none

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



VULNERABILITY ANALYSIS

NO ERRORS FOUND



MANUAL CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Low Risk

Owner can set dream rider NFT address to any address.
If dreamriderNFTAddress is set to address with code.length == 0,
functions that use functions call to that address will halt.

Note: *try {} catch {} blocks revert state if function calls are to address with code.length == 0 (non contract address).*

```
function setDreamriderNFTAddress(address _dreamriderNFTAddress) external onlyOwner {
    require(_dreamriderNFTAddress.code.length > 0, "Address is not a contract");
    dreamriderNFTAddress = _dreamriderNFTAddress;
}

function buyDreamrider(uint256 _modelId, string memory _uri, uint256 _uwuAmount) external {
    .....
    require(!existsDreamrider(_modelId), "Model ID is already owned");
    .....
    // Try to mint the Dreamrider NFT to the message sender
    try DreamriderNFT(dreamriderNFTAddress).mintNFT(msg.sender, _modelId, _uri) {
        // Handle a successful mint
    } catch {
        // Handle errors from the mint function
        revert("Failed to mint Dreamrider NFT");
    }
}

function existsDreamrider(uint256 _modelId) internal view returns (bool) {
    try DreamriderNFT(dreamriderNFTAddress).safeOwnerOf(_modelId) returns (address owner) {
        return owner != address(0);
    }
    catch {
        return false;
    }
}

function pay(address spender, uint256 amount, TokenType tokenType, uint256 modelId) internal {
    .....
    // Calculate and allocate Dreamrider NFT holder rewards
    address dreamriderOwner;
    try DreamriderNFT(dreamriderNFTAddress).safeOwnerOf(modelId) returns (address _owner) {
        dreamriderOwner = _owner;
    } catch {
        dreamriderOwner = address(0);
    }
    .....
}
```

Recommendation:

Ensure that dreamriderNFTAddress is always contract address to prevent undesired addresses entered by mistakes.



FOUND THREATS

Informational

Owner can set luckywheel address.

Luckywheel address can grant free models unlock and free model discoveries to user.

```
modifier onlyLuckyWheel() {
    require(msg.sender == luckyWheelAddress, "Caller is not the Lucky Wheel");
    _;
}

function setLuckyWheelAddress(address _luckyWheelAddress) external onlyOwner {
    luckyWheelAddress = _luckyWheelAddress;
}

function grantBOGOLockOffer(address user) external onlyLuckyWheel {
    BOGOLockOffer storage offer = bogoLockOffers[user];
    offer.validUntil = block.timestamp + 3 days;
    offer.isUsed = false;
}

function grantFreeDiscoveries(address user, uint256 quantity) external onlyLuckyWheel {
    freeModelDiscoveries[user] += quantity;
}
```



FOUND THREATS

Informational

Owner can set whether model can receive usdc or not for models gift.

```
function setUsdcAcceptance(uint256 _modelId, bool _acceptUSDC) external onlyOwner {  
    require(models[_modelId].exists, "Model ID does not exist");  
    usdcAcceptanceByModelId[_modelId] = _acceptUSDC;  
    emit UsdcAcceptanceSet(_modelId, _acceptUSDC);  
}
```

Owner can set discovery costs for nft models.

```
function setDiscoverCost(uint256 _quantity, RarityCode _rarity, uint256 _usdcCost) external onlyOwner {  
    require(_quantity > 0, "Quantity must be greater than zero");  
    require(discoverCosts[_quantity][_rarity] == 0, "Discover cost already set for this quantity and rarity");  
    discoverCosts[_quantity][_rarity] = _usdcCost;  
}
```



FOUND THREATS

Informational

Owner can create new nft models with various rarities.

```
function createModel(uint256 _modelId, RarityCode _rarity, uint256 _cliffTimestamp) external onlyOwner {
    require(!models[_modelId].exists, "Model ID already exists");
    require(_cliffTimestamp >= block.timestamp, "Cliff timestamp must be in the future");

    models[_modelId].rarity = _rarity;
    models[_modelId].cliffTimestamp = _cliffTimestamp;
    models[_modelId].exists = true;

    emit ModelCreated(_modelId, _rarity, _cliffTimestamp);
}
```

Owner can set cost and earn amount threshold for each rarity.

```
function setRarity(RarityCode rarity, uint256 unlockCost, uint256 earnedAmountThreshold) external onlyOwner {
    rarities[rarity] = RarityInfo({
        unlockCost: unlockCost,
        earnedAmountThreshold: earnedAmountThreshold
    });
    emit RarityUpdated(rarity, unlockCost, earnedAmountThreshold);
}
```

Owner can set USDC to UWU conversion rate.
usdcToUWUEarnedRate is used in gift model functionality.

```
function setUSDCtoUWUEarnedRate(uint256 _usdcToUWURate) external onlyOwner {
    require(_usdcToUWURate > 0, "Conversion rate must be greater than zero");
    usdcToUWUEarnedRate = _usdcToUWURate;
    emit USDCtoUWUEarnedRateUpdated(_usdcToUWURate);
}
```



Dreamriders NFT

Token Name	Symbol
DreamridersNFT	N/A
Contract Address	
0x851d231f11bAB6ae4D988A70A796B64A3c3cD6CF	
Network	Language
Binance Smart Chain	Solidity
Deployment Date	Contract Type
May 17, 2024	NFT
Total Supply	Status
0	Launched

TAXES

Buy Tax
none

Sell Tax
none

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Blockchain security tools used:

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- Mythril
- Solidity Compiler
- Hardhat



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



FOUND THREATS

Informational

Owner can set base URI for NFTs,
If no URI is specified by user, the default base URI will be used.

```
function setBaseURI(string memory baseURI) public onlyOwner {  
    require(!uriFrozen, "URI update is frozen.");  
    baseTokenURI = baseURI;  
}
```

Owner can change each minted NFT's URI until freezeBaseURI() is used.

```
function setTokenURI(uint256 tokenId, string memory uri) public onlyOwner {  
    require(!uriFrozen, "Token URI updates are frozen.");  
    require(_tokenExists(tokenId), "ERC721Metadata: URI set of nonexistent token");  
    _tokenURIs[tokenId] = uri;  
}
```

Owner can trigger freezeBaseURI() function.
Once freezeBaseURI() is used and uriFrozen is true, no further URI changes
can be made either for base URI and individual NFT's URI.

```
function freezeBaseURI() public onlyOwner {  
    uriFrozen = true;  
}
```



WEBSITE

Website URL

<https://neverletgo.ai/>

Domain Registry

<https://www.namecheap.com>

Domain Expiration

N/A

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Nice overall design with appropriate color scheme and graphics.

Content

Informative content. Users can understand what the project is about right away.

Whitepaper

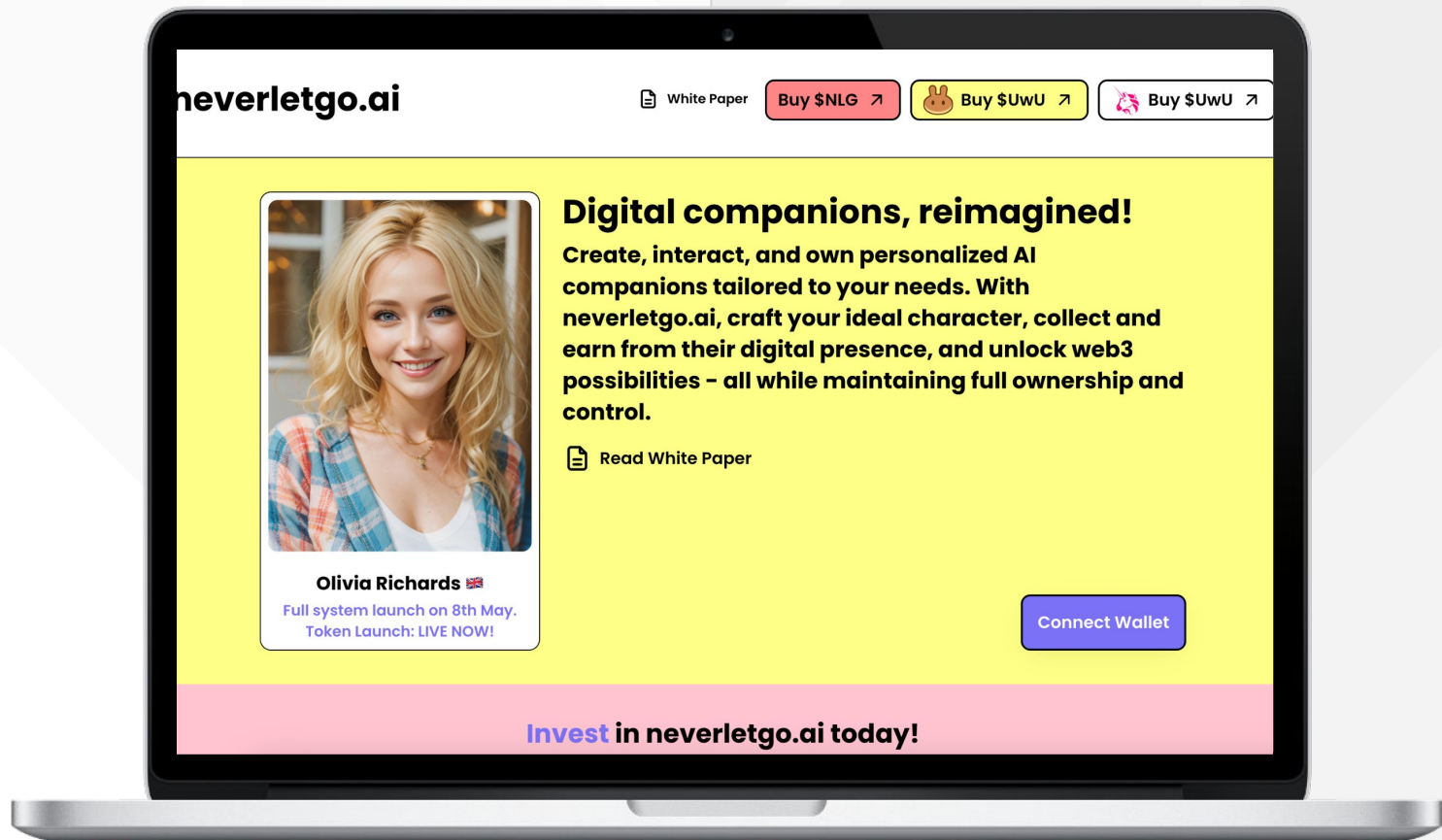
Well written, explanatory.

Roadmap

No

Mobile-friendly?

Yes



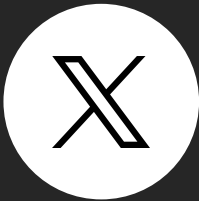
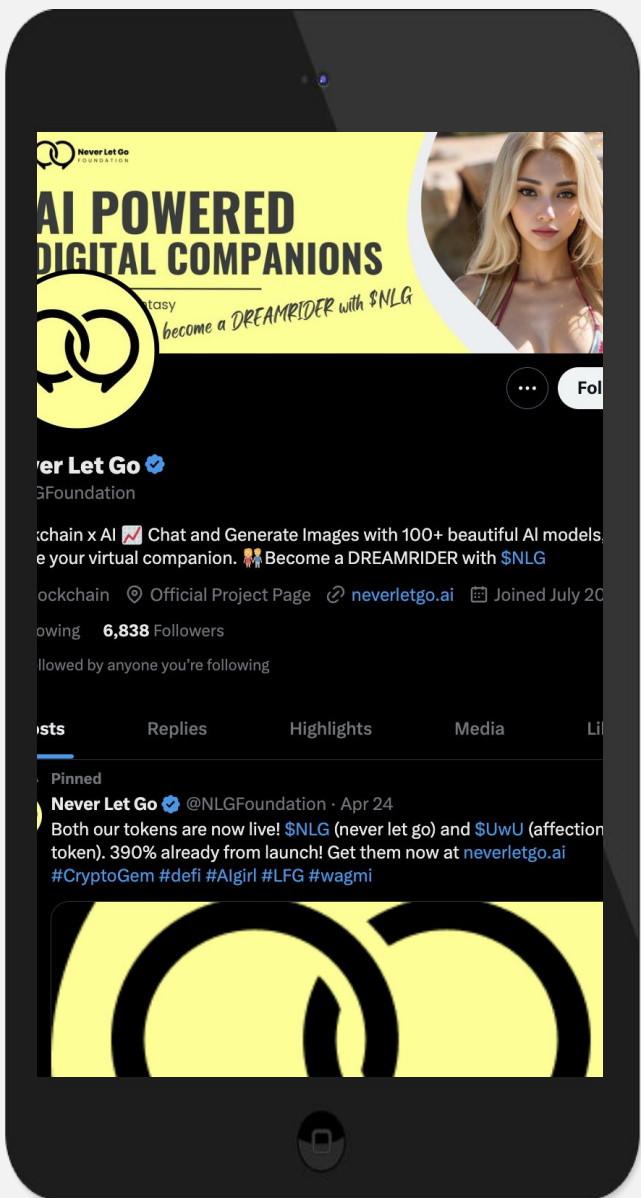
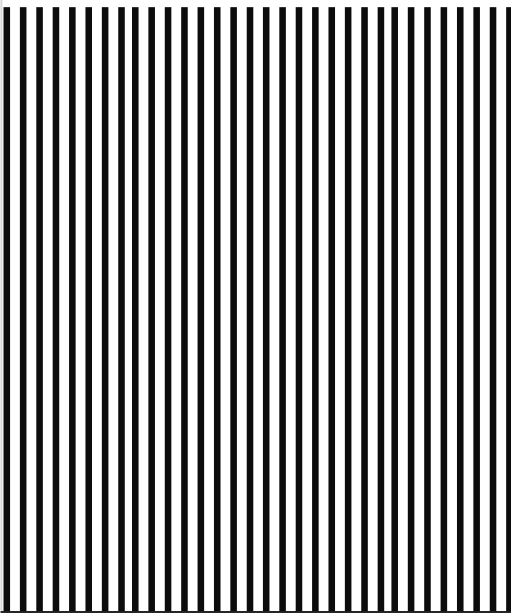
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SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Social media presence
is new but active.



Twitter's X
@NLGFoundation

- 6,780 followers
- Responds to comments
- Daily posts



Discord
invite/TfEukaPhmN

- 4,471 members
- Active community



Telegram
@NLGFoundationChannel

- 3,009 subscribers
- Posts frequently



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.