SPYWOLF

Security Audit Report
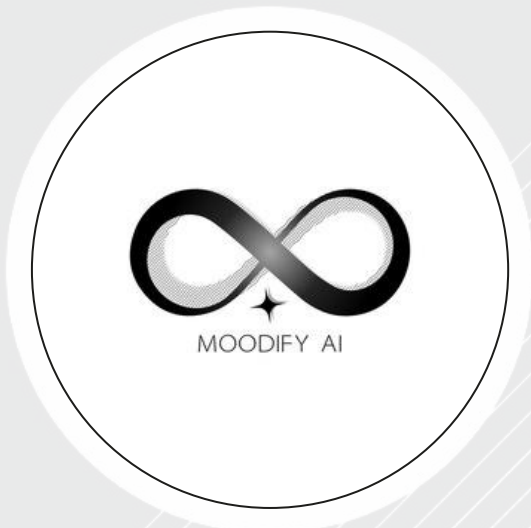
MOODIFY AI

Audit prepared for

Moodify AI

Completed on

December 28, 2024

KEY RESULTS

Cannot mint new tokens	**Passed**
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	**Passed**
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.

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
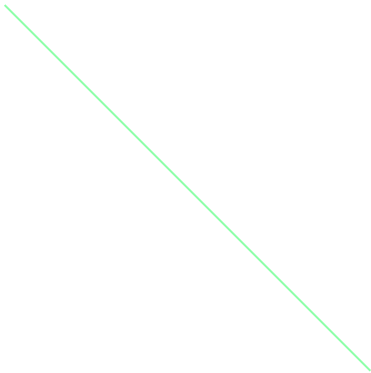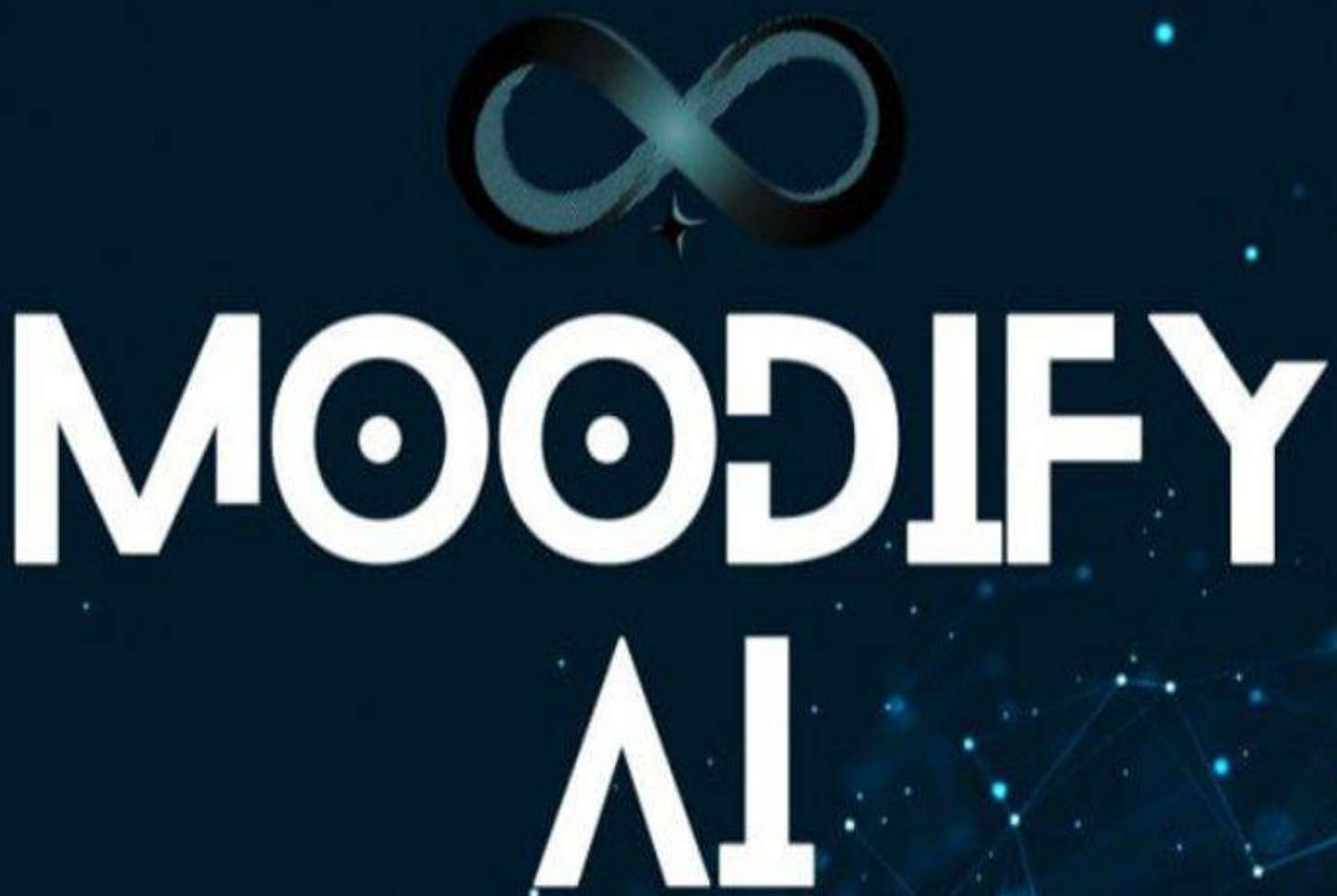
– SPYWOLF Team –

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Moodify AI

PROJECT DESCRIPTION

In today's rapidly evolving digital landscape, managing online communities effectively and ensuring secure, engaging conversations has become increasingly challenging. Moodify AI is a cutting-edge AI-powered Telegram moderation bot designed to revolutionize how group chats are managed. By adapting to the tone of conversations, eliminating threats like FUD (Fear, Uncertainty, and Doubt), and maintaining community integrity, Moodify AI delivers an unparalleled user experience. Governed by its MOODY token, Moodify AI offers a completely free-to-use solution, making it accessible to communities of all sizes.

Release Date: Launched Dec 27, 2024

Category: AI

01

CONTRACT INFO

Token Name
Moodify AI

Symbol
MOODY

Contract Address
0xb7e3144c1f29f6bebae34146eded11dd906d77d6

Network
Ethereum

Language
Solidity

Deployment Date
Dec 27, 2024

Contract Type
Token

Total Supply
100,000,000

Status
Launched

TAXES

Buy Tax
25%

Sell Tax
25%

*Moodify AI uses a dynamic tax system, starting with a 25% tax on buys and sells, which decreases to 5% over time. This encourages long-term holding and supports the project's growth and stability.

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

02

TOKEN TRANSFERS STATS

Transfer Count	1,234
Uniq Senders	567
Uniq Receivers	789
Total Amount	50,000,000 MOODY
Median Transfer Amount	10,000 MOODY
Average Transfer Amount	40,500 MOODY
First transfer date	December 27, 2024
Last transfer date	December 28, 2024
Days token transferred	2

SMART CONTRACT STATS

Calls Count	1,234
External calls	1,000
Internal calls	234
Transactions count	1,234
Uniq Callers	567
Days contract called	2
Last transaction time	December 28, 2024
Created	December 27, 2024
Create TX	0x1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcdef
Creator	0xabcdef1234567890abcdef1234567890abcdef12

03

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

04-A

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

04-B

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.

06

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.

07-A

FOUND THREATS

ℹ️ Informational

Dynamic Tax Structure

The token employs an initially high tax (25%) on buys and sells, which decreases to 5% as trading activity progresses. While this incentivizes long-term holding, it could discourage early trading and deter some potential investors. Transparent communication about the purpose and timeline of these taxes is crucial to maintain user confidence.

Hardcoded Parameters

Key trading parameters, such as initial and final tax rates, transaction limits, and wallet size restrictions, are hardcoded into the contract and cannot be modified after deployment. While this provides transparency and predictability, it limits the flexibility to adapt to changing market conditions. Clear communication about the immutability of these parameters is important to set user expectations.

Centralized Fee Management

The tax wallet (_taxWallet) is a single address controlled by the owner, where all collected taxes are sent. This introduces a centralized point of control, which, if mismanaged or compromised, could result in loss of funds. Transitioning to a multisignature wallet for tax fund management would provide additional security and align with decentralized principles.

Website URL
https://moodifyai.org/

Domain Registry
https://rdapserver.net/

Domain Expiration
2025-12-21

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar errors found. .
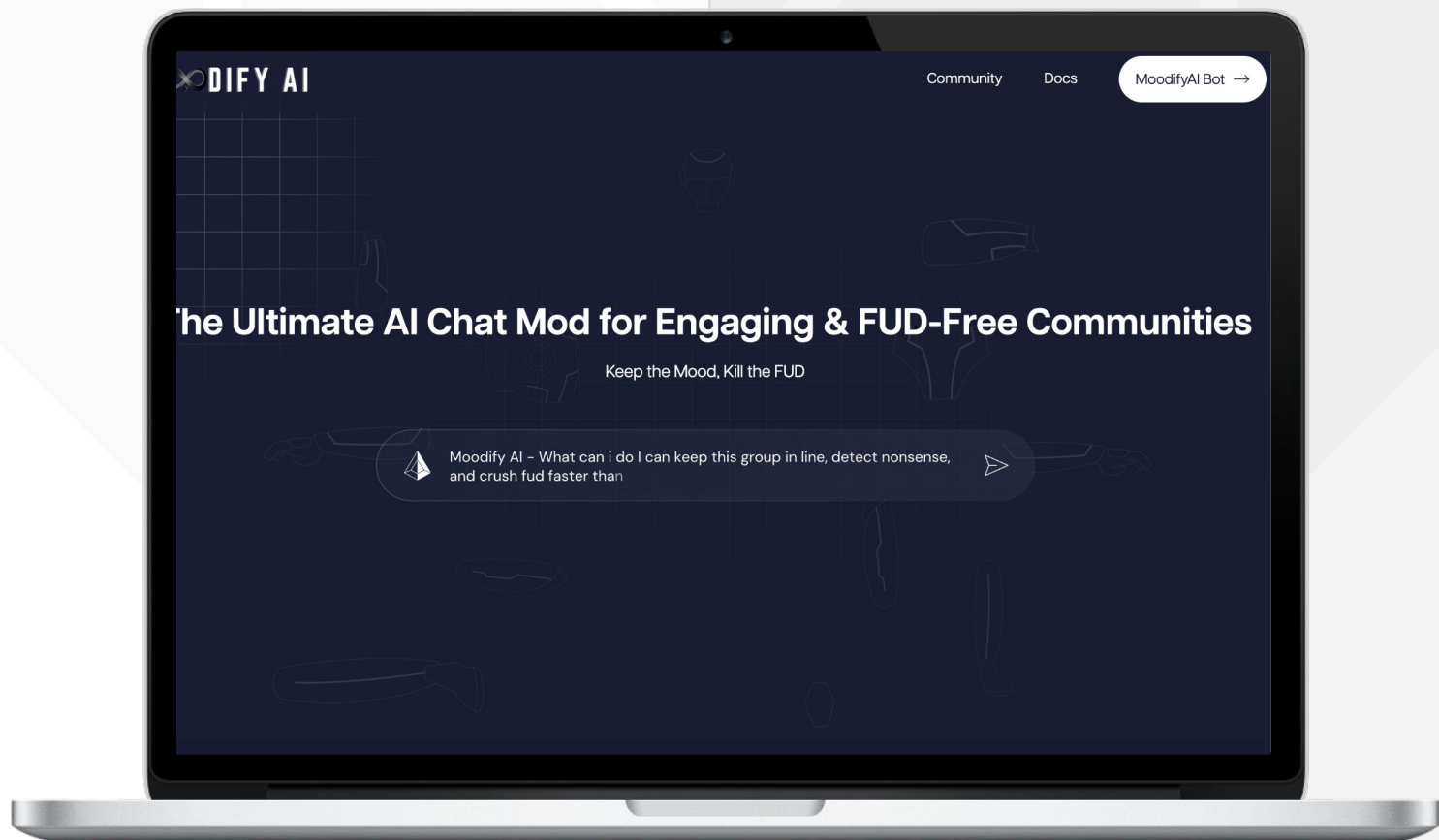
Whitepaper
Well written but a bit short

Roadmap
Yes

Mobile-friendly?
Yes

MODIFY AI
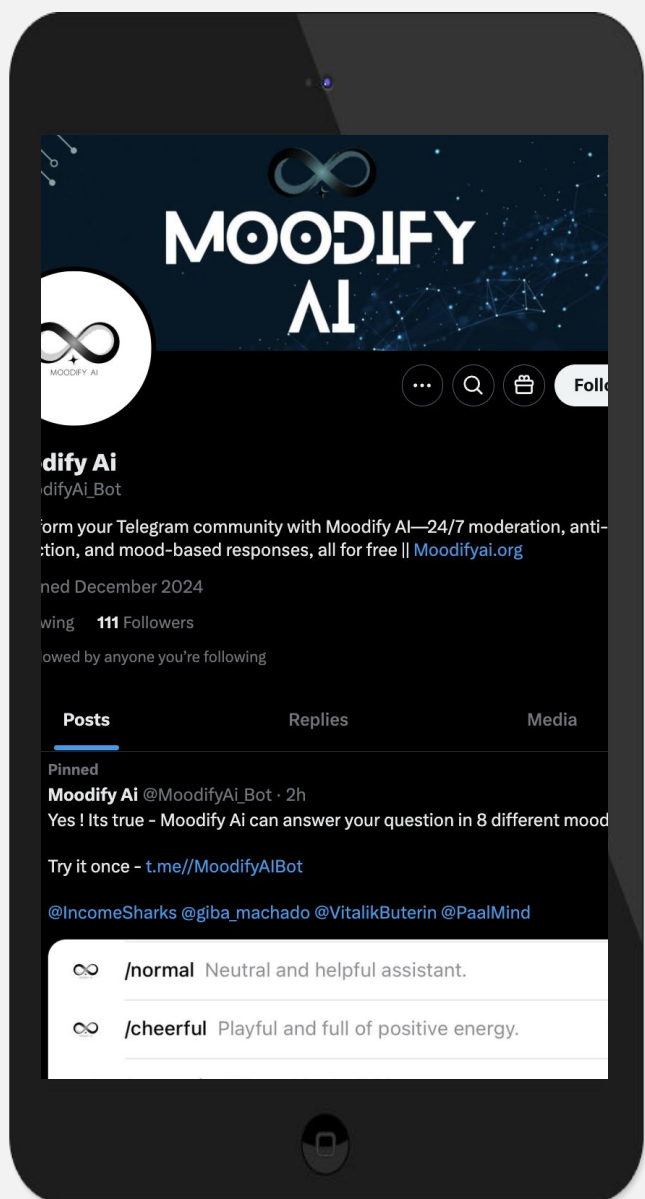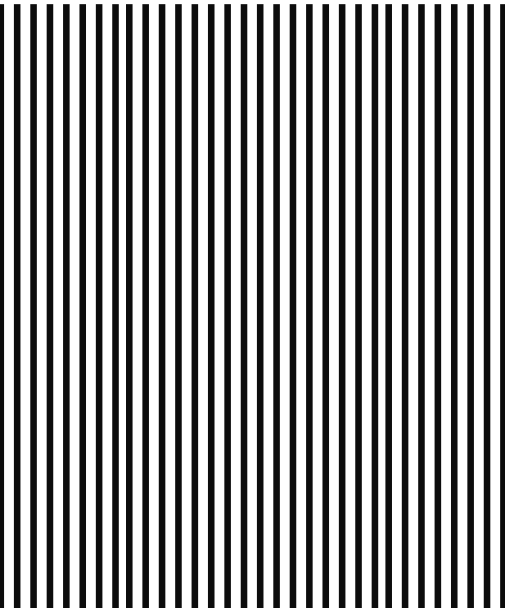
Community   Docs   MoodifyAI Bot →

The Ultimate AI Chat Mod for Engaging & FUD-Free Communities

Keep the Mood, Kill the FUD

Moodify AI - What can i do I can keep this group in line, detect nonsense, and crush fud faster than

moodifyai.org

SOCIAL MEDIA

& ONLINE PRESENCE

The project's social media pages are active with daily posts.

Moodify Ai
@MoodifyAi_Bot

...form your Telegram community with Moodify AI—24/7 moderation, anti-...ction, and mood-based responses, all for free || Moodifyai.org

...ned December 2024

...wing **111** Followers

...owed by anyone you're following

Posts | Replies | Media

Pinned
Moodify Ai @MoodifyAi_Bot · 2h
Yes ! Its true - Moodify Ai can answer your question in 8 different mood...

Try it once - t.me//MoodifyAIBot

@IncomeSharks @giba_machado @VitalikButerin @PaalMind

∞ **/normal** Neutral and helpful assistant.

∞ **/cheerful** Playful and full of positive energy.

Twitter's X

@moodifyai_bot

- 111 Followers
- Responds to comments
- Daily posts

Discord

- Not available

Telegram

@moodifyAi_Erc

- 804 members
- Active mods and devs
- Daily announcements

Medium

- Not available

09

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.

- ✔ **OVER 700 SUCCESSFUL CLIENTS**

- ✔ **MORE THAN 1000 SCAMS EXPOSED**

- ✔ **MILLIONS SAVED IN POTENTIAL FRAUD**

- ✔ **PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS**

- ✔ **CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH**

To hire us, reach out to contact@spywolf.co or t.me/joe_SpyWolf

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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.