

Mew Inu
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Mew Inu	MEW	Ethereum	

Addresses

Contract address	0xe71221fbfcc55d49363c4a2286424b6dbecc368f	
Contract deployer address	0xff37A2c9C13b1f241864e433CdBD4EFa6dc4b8Fd	

Project Website

https://mewinutoken.com/

Codebase

https://etherscan.io/address/0xe71221fbfcc55d49363c4a2286424b6dbecc368f#code



SUMMARY

A psychic, friendly, moonbound Pokémon. Mew is #151 in the Pokédex, making it the last Pokémon in the original Pokédex. Mew is incredibly rare, and is said to only appear to those pure of heart. A decentralized meme token with big plans to become a household name.

Contract Summary

Documentation Quality

Mew Inu provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by Mew Inu with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 932.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 118, 154, 177, 178, 217, 257, 529, 914, 914, 915, 915, 935, 935, 936, 936, 1121, 1123, 1171, 1266, 1291, 1295 and 1123.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 9.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 1122, 1123, 1123, 1268, 1269, 1271, 1272, 1393 and 1394.



CONCLUSION

We have audited the Mew Inu project released on November 2021 to discover issues and identify potential security vulnerabilities in Mew Inu Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the Mew Inu smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	e followed PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a ISSUE failing assert statement.		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses. PASS		



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Tuesday Nov 30 2021 14:03:08 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Dec 01 2021 18:36:00 GMT+0000 (Coordinated Universal Tin	ne)	
Mode	Standard		
Main Source File	MewInu.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 118

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
}
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 154

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
153  require(b <= a, errorMessage);
154  uint256 c = a - b;
155
156  return c;
157  }
158</pre>
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 177

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
176
177    uint256 c = a * b;
178    require(c / a == b, "SafeMath: multiplication overflow");
179
180    return c;
181
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 178

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
177   uint256   c = a * b;
178   require(c / a == b, "SafeMath: multiplication overflow");
179
180   return c;
181  }
182
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 217

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
216    require(b > 0, errorMessage);
217    uint256 c = a / b;
218    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
219
220    return c;
221
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 257

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
256 require(b != 0, errorMessage);
257 return a % b;
258 }
259 }
260
261
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 529

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
528   _owner = address(0);
529   _lockTime = block.timestamp + time;
530   emit OwnershipTransferred(_owner, address(0));
531  }
532
533
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 914

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
913  uint256 private constant MAX = ~uint256(0);
914  uint256 private _tTotal = 70000000000 * 10**18;
915  uint256 private _rTotal = (MAX - (MAX % _tTotal));
916  uint256 private _tReflectionFeeTotal;
917
918
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 914

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
913 uint256 private constant MAX = ~uint256(0);
914 uint256 private _tTotal = 70000000000 * 10**18;
915 uint256 private _rTotal = (MAX - (MAX % _tTotal));
916 uint256 private _tReflectionFeeTotal;
917
918
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 915

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
914  uint256 private _tTotal = 70000000000 * 10**18;
915  uint256 private _rTotal = (MAX - (MAX % _tTotal));
916  uint256 private _tReflectionFeeTotal;
917
918  string private _name = "Mew Inu";
919
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 915

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
914  uint256 private _tTotal = 70000000000 * 10**18;
915  uint256 private _rTotal = (MAX - (MAX % _tTotal));
916  uint256 private _tReflectionFeeTotal;
917
918  string private _name = "Mew Inu";
919
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 935

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
934
935 uint256 public maxTxAmount = 5000000 * 10**18;
936 uint256 public numTokensToSwap = 5000 * 10**18;
937
938 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
939
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 935

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
934
935 uint256 public maxTxAmount = 5000000 * 10**18;
936 uint256 public numTokensToSwap = 5000 * 10**18;
937
938 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
939
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 936

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
935    uint256    public maxTxAmount = 5000000 * 10**18;
936    uint256    public numTokensToSwap = 5000 * 10**18;
937
938    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
939    event SwapAndWithdrawEnabledUpdated(bool enabled);
940
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 936

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
935  uint256 public maxTxAmount = 5000000 * 10**18;
936  uint256 public numTokensToSwap = 5000 * 10**18;
937
938  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
939  event SwapAndWithdrawEnabledUpdated(bool enabled);
940
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1121

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
1120 require(_isExcluded[account], "Account is already included");
1121 for (uint256 i = 0; i < _excluded.length; i++) {
1122   if (_excluded[i] == account) {
1123    _excluded[i] = _excluded[_excluded.length - 1];
1124   _tOwned[account] = 0;
1125</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1123

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
if (_excluded[i] == account) {
    1123     _excluded[i] = _excluded[_excluded.length - 1];
    1124     _tOwned[account] = 0;
    1125     _isExcluded[account] = false;
    1126     _excluded.pop();
    1127
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1171

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {
    1171     maxTxAmount = _tTotal.mul(maxTxPercent).div(10**2);
    1172     }
    1173
    function setSwapAndWithdrawEnabled(bool _enabled) public onlyOwner {
    1175
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1266

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1291

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
1290 {
1291 return _amount.mul(reflectionFee).div(10**2);
1292 }
1293
1294 function calculateTxFee(uint256 _amount) private view returns (uint256) {
1295
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1295

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol

```
function calculateTxFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(txFee).div(10**2);
  }
  1296   }
  1297
  function removeAllFee() private {
  1299
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 1123

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- Mewlnu.sol



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 9

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MewInu.sol

```
8  // SPDX-License-Identifier: Unlicensed
9  pragma solidity ^0.8.0;
10
11  interface IERC20 {
12  function totalSupply() external view returns (uint256);
13
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 932

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndWithdraw" is internal. Other possible visibility settings are public and private.

Source File

- Mewlnu.sol

```
931
932 bool inSwapAndWithdraw;
933 bool public swapAndWithdrawEnabled = true;
934
935 uint256 public maxTxAmount = 5000000 * 10**18;
936
```



LINE 1122

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol



LINE 1123

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
if (_excluded[i] == account) {
    1123     _excluded[i] = _excluded[_excluded.length - 1];
    1124     _tOwned[account] = 0;
    1125     _isExcluded[account] = false;
    1126     _excluded.pop();
    1127
```



LINE 1123

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
if (_excluded[i] == account) {
    1123     _excluded[i] = _excluded[_excluded.length - 1];
    1124     _tOwned[account] = 0;
    1125     _isExcluded[account] = false;
    1126     _excluded.pop();
    1127
```



LINE 1268

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
1267  if (
1268    _rOwned[_excluded[i]] > rSupply ||
1269    _tOwned[_excluded[i]] > tSupply
1270  ) return (_rTotal, _tTotal);
1271    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1272
```



LINE 1269

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
1268 _rOwned[_excluded[i]] > rSupply ||
1269 _tOwned[_excluded[i]] > tSupply
1270 ) return (_rTotal, _tTotal);
1271 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1272 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1273
```



LINE 1271

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
1270 ) return (_rTotal, _tTotal);
1271  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1272  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1273 }
1274  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1275</pre>
```



LINE 1272

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
1271  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1272  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1273  }
1274  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1275  return (rSupply, tSupply);
1276</pre>
```



LINE 1393

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- Mewlnu.sol

```
1392 address[] memory path = new address[](2);
1393 path[0] = address(this);
1394 path[1] = uniswapV2Router.WETH();
1395
1396 _approve(address(this), address(uniswapV2Router), tokenAmount);
1397
```



LINE 1394

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MewInu.sol

```
1393 path[0] = address(this);
1394 path[1] = uniswapV2Router.WETH();
1395
1396 _approve(address(this), address(uniswapV2Router), tokenAmount);
1397
1398
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the 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 below disclaimer below – please make sure to read it in full.

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