



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 don't 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.	ISSUE FOUND
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.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	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 failing assert statement.	ISSUE FOUND
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.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
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.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
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.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	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.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

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.	PASS
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.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



# 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 Time)
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

LINE 118

## low SEVERITY

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

## Source File

- MewInu.sol

## Locations

```
117 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
118     uint256 c = a + b;  
119     require(c >= a, "SafeMath: addition overflow");  
120  
121     return c;  
122 }
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 154

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

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

## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 177

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

### Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

### Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
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     }
1126   }
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1123

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
1122  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

- MewInu.sol

## Locations

```
1170     function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {
1171         maxTxAmount = _tTotal.mul(maxTxPercent).div(10**2);
1172     }
1173
1174     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

- MewInu.sol

## Locations

```
1265     uint256 tSupply = _tTotal;
1266     for (uint256 i = 0; i < _excluded.length; i++) {
1267         if (
1268             _rOwned[_excluded[i]] > rSupply ||
1269             _tOwned[_excluded[i]] > tSupply
1270         )
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 1291

## low SEVERITY

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

## Source File

- MewInu.sol

## Locations

```
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

- MewInu.sol

## Locations

```
1294 function calculateTxFee(uint256 _amount) private view returns (uint256) {
1295     return _amount.mul(txFee).div(10**2);
1296 }
1297
1298 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

- MewInu.sol

## Locations

```
1122  if (_excluded[i] == account) {  
1123  _excluded[i] = _excluded[_excluded.length - 1];  
1124  _tOwned[account] = 0;  
1125  _isExcluded[account] = false;  
1126  _excluded.pop();  
1127
```



## 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

### Locations

```
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

- MewInu.sol

### Locations

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

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1122

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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       _isExcluded[account] = false;
1126     }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1123

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
1122  if (_excluded[i] == account) {  
1123  _excluded[i] = _excluded[_excluded.length - 1];  
1124  _tOwned[account] = 0;  
1125  _isExcluded[account] = false;  
1126  _excluded.pop();  
1127
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1123

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
1122  if (_excluded[i] == account) {  
1123  _excluded[i] = _excluded[_excluded.length - 1];  
1124  _tOwned[account] = 0;  
1125  _isExcluded[account] = false;  
1126  _excluded.pop();  
1127
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1268

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

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

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1269

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1271

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1272

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1393

### low SEVERITY

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

### Source File

- MewInu.sol

### Locations

```
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
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

### Locations

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

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