

FIT Token

Smart Contract Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
FIT Token	FIT	Binance Smart Chain	

Addresses

Contract address	0x77922a521182a719a48ba650ac2a040269888888
Contract deployer address	0xad80314c566Be4Bacbb3992F844faE914D9Fd31d

Project Website

https://calo.run/

Codebase

https://bscscan.com/address/0x77922a521182a719a48ba650ac2a040269888888#contracts



SUMMARY

Calo Metaverse blockchain system provides you chances to work out on a daily basis either in single or world challenge mode. We also record your training results and convert your moving movement into valuable rewards. You can either hold the Tokens and NFTs earned to use in-app or cash out for profit. The more you practice, the more rewards you get; that is the motivation that pushes us forward to move our bodies so as to gain both beneficial health and passive income

Contract Summary

Documentation Quality

FIT Token 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 FIT Token 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 1531, 1532, 1533, 1536 and 1537.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 35, 53, 72, 73, 90, 106, 121, 135, 149, 163, 179, 202, 225, 251, 281, 282, 286, 287, 287, 288, 303, 317, 317, 320, 320, 320, 1264, 1294, 1330, 1332, 1353, 1354, 1379, 1381, 1433, 1542, 1549, 1622 and 1631.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11, 260, 333, 438, 465, 500, 661, 687, 944, 1035, 1063, 1483 and 1519.
- 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 287, 318, 319, 321, 321, 1623 and 1632.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 1559, 1560 and 1561.



CONCLUSION

We have audited the FIT Token project released on May 2022 to discover issues and identify potential security vulnerabilities in the FIT Token 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 satisfactory results with low-risk issues.

The issues found in the FIT Token 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, use of "tx.origin" as a part of authorization control, and out-of-bounds array access which the index access expression can cause an exception in case of an invalid array index value. The current pragma Solidity directive is ""^0.8.0"". Specifying a fixed compiler version is recommended 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. It is best practice to set the visibility of state variables explicitly. The default visibility for "buyFeeRate" is internal. Other possible visibility settings are public and private. Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you know what you are doing.



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.		
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.	essage call should be PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
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.		
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.	ISSUE FOUND
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	C-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.	PASS
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 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.	
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.	PASS
Unexpected Ether balance	SWC-132 Contracts can behave erroneously when they strictly assume a specific Ether balance.		PASS
Hash Collisions Variable	SWC-133		PASS
Hardcoded gas amount	SWC-134	The transfer() and send() 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	Monday May 02 2022 01:39:20 GMT+0000 (Coordinated Universal Time)		
Finished	Tuesday May 03 2022 20:04:13 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	FITToken.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	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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged



SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 35

low SEVERITY

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

Source File

- FITToken.sol

```
34  unchecked {
35  uint256 c = a + b;
36  if (c < a) return (false, 0);
37  return (true, c);
38  }
39</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 53

low SEVERITY

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

Source File

- FITToken.sol

```
52  if (b > a) return (false, 0);
53  return (true, a - b);
54  }
55  }
56
57
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 72

low SEVERITY

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

Source File

- FITToken.sol

```
71 if (a == 0) return (true, 0);
72 uint256 c = a * b;
73 if (c / a != b) return (false, 0);
74 return (true, c);
75 }
76
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 73

low SEVERITY

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

Source File

- FITToken.sol

```
72  uint256 c = a * b;
73  if (c / a != b) return (false, 0);
74  return (true, c);
75  }
76  }
77
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 90

low SEVERITY

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

Source File

- FITToken.sol

```
89  if (b == 0) return (false, 0);
90  return (true, a / b);
91  }
92  }
93
94
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 106

low SEVERITY

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

Source File

- FITToken.sol

```
105  if (b == 0) return (false, 0);
106  return (true, a % b);
107  }
108  }
109
110
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 121

low SEVERITY

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

Source File

- FITToken.sol

```
120  function add(uint256 a, uint256 b) internal pure returns (uint256) {
121  return a + b;
122  }
123
124  /**
125
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 135

low SEVERITY

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

Source File

- FITToken.sol

```
134  function sub(uint256 a, uint256 b) internal pure returns (uint256) {
135   return a - b;
136  }
137
138  /**
139
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 149

low SEVERITY

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

Source File

- FITToken.sol

```
148  function mul(uint256 a, uint256 b) internal pure returns (uint256) {
149  return a * b;
150  }
151
152  /**
153
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 163

low SEVERITY

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

Source File

- FITToken.sol

```
162  function div(uint256 a, uint256 b) internal pure returns (uint256) {
163   return a / b;
164  }
165
166  /**
167
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 179

low SEVERITY

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

Source File

- FITToken.sol

```
178 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
179 return a % b;
180 }
181
182 /**
183
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 202

low SEVERITY

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

Source File

- FITToken.sol

```
201 require(b <= a, errorMessage);
202 return a - b;
203 }
204 }
205
206</pre>
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 225

low SEVERITY

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

Source File

- FITToken.sol

```
224  require(b > 0, errorMessage);
225  return a / b;
226  }
227  }
228
229
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 251

low SEVERITY

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

Source File

- FITToken.sol

```
250 require(b > 0, errorMessage);
251 return a % b;
252 }
253 }
254 }
255
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 281

low SEVERITY

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

Source File

- FITToken.sol

```
280 while (temp != 0) {
281 digits++;
282 temp /= 10;
283 }
284 bytes memory buffer = new bytes(digits);
285
```



SWC-101 | ARITHMETIC OPERATION "/=" DISCOVERED

LINE 282

low SEVERITY

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

Source File

- FITToken.sol

```
281 digits++;
282 temp /= 10;
283 }
284 bytes memory buffer = new bytes(digits);
285 while (value != 0) {
286
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 286

low SEVERITY

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

Source File

- FITToken.sol

```
285 while (value != 0) {
286  digits -= 1;
287  buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
288  value /= 10;
289  }
290
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 287

low SEVERITY

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

Source File

- FITToken.sol

```
286 digits -= 1;

287 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));

288 value /= 10;

289 }

290 return string(buffer);

291
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 287

low SEVERITY

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

Source File

- FITToken.sol

```
286 digits -= 1;

287 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));

288 value /= 10;

289 }

290 return string(buffer);

291
```



SWC-101 | ARITHMETIC OPERATION "/=" DISCOVERED

LINE 288

low SEVERITY

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

Source File

- FITToken.sol

```
287 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
288 value /= 10;
289 }
290 return string(buffer);
291 }
292
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 303

low SEVERITY

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

Source File

- FITToken.sol

```
302 while (temp != 0) {
303 length++;
304 temp >>= 8;
305 }
306 return toHexString(value, length);
307
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 317

low SEVERITY

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

Source File

- FITToken.sol

```
316 {
317 bytes memory buffer = new bytes(2 * length + 2);
318 buffer[0] = "0";
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 317

low SEVERITY

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

Source File

- FITToken.sol

```
316 {
317 bytes memory buffer = new bytes(2 * length + 2);
318 buffer[0] = "0";
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 320

low SEVERITY

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

Source File

- FITToken.sol

```
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321 buffer[i] = _HEX_SYMBOLS[value & 0xf];
322 value >>= 4;
323 }
324
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 320

low SEVERITY

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

Source File

- FITToken.sol

```
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321 buffer[i] = _HEX_SYMBOLS[value & 0xf];
322 value >>= 4;
323 }
324
```



SWC-101 | ARITHMETIC OPERATION "--" DISCOVERED

LINE 320

low SEVERITY

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

Source File

- FITToken.sol

```
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321 buffer[i] = _HEX_SYMBOLS[value & 0xf];
322 value >>= 4;
323 }
324
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1264

low SEVERITY

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

Source File

- FITToken.sol

```
1263 address owner = _msgSender();
1264 _approve(owner, spender, _allowances[owner][spender] + addedValue);
1265  return true;
1266 }
1267
1268
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1294

low SEVERITY

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

Source File

- FITToken.sol

```
1293 unchecked {
1294 _approve(owner, spender, currentAllowance - subtractedValue);
1295 }
1296
1297 return true;
1298
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1330

low SEVERITY

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

Source File

- FITToken.sol

```
1329 unchecked {
1330    _balances[from] = fromBalance - amount;
1331 }
1332    _balances[to] += amount;
1333
1334
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1332

low SEVERITY

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

Source File

- FITToken.sol

```
1331  }
1332  _balances[to] += amount;
1333
1334  emit Transfer(from, to, amount);
1335
1336
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1353

low SEVERITY

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

Source File

- FITToken.sol

```
1352
1353  _totalSupply += amount;
1354  _balances[account] += amount;
1355  emit Transfer(address(0), account, amount);
1356
1357
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1354

low SEVERITY

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

Source File

- FITToken.sol

```
1353  _totalSupply += amount;
1354  _balances[account] += amount;
1355  emit Transfer(address(0), account, amount);
1356
1357  _afterTokenTransfer(address(0), account, amount);
1358
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1379

low SEVERITY

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

Source File

- FITToken.sol

```
1378 unchecked {
1379   _balances[account] = accountBalance - amount;
1380  }
1381   _totalSupply -= amount;
1382
1383
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1381

low SEVERITY

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

Source File

- FITToken.sol

```
1380  }
1381  _totalSupply -= amount;
1382
1383  emit Transfer(account, address(0), amount);
1384
1385
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1433

low SEVERITY

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

Source File

- FITToken.sol

```
1432 unchecked {
1433 _approve(owner, spender, currentAllowance - amount);
1434 }
1435 }
1436 }
1437
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1542

low SEVERITY

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

Source File

- FITToken.sol

```
1541 require(
1542 lastSwapTimestamp[receipient] + antiBotTime < block.timestamp,
1543 "Anti front running bot"
1544 );
1545 lastSwapTimestamp[receipient] = block.timestamp;
1546</pre>
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1549

low SEVERITY

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

Source File

- FITToken.sol

```
1548  require(
1549  lastSwapTimestamp[sender] + antiBotTime < block.timestamp,
1550  "Anti front running bot"
1551  );
1552  lastSwapTimestamp[sender] = block.timestamp;
1553</pre>
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1622

low SEVERITY

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

Source File

- FITToken.sol

```
1621 {
1622  for (uint256 i = 0; i < addresses.length; i++) {
1623  lpAddresses[addresses[i]] = true;
1624  }
1625  }
1626</pre>
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1631

low SEVERITY

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

Source File

- FITToken.sol

```
1630 {
1631  for (uint256 i = 0; i < addresses.length; i++) {
1632  blacklist[addresses[i]] = isBlacklist;
1633  }
1634  }
1635</pre>
```



LINE 11

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

- FITToken.sol

```
10
11 pragma solidity ^0.8.0;
12
13 // CAUTION
14 // This version of SafeMath should only be used with Solidity 0.8 or later,
15
```



LINE 260

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

- FITToken.sol

```
259
260 pragma solidity ^0.8.0;
261
262 /**
263 * @dev String operations.
264
```



LINE 333

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

- FITToken.sol

```
332
333 pragma solidity ^0.8.0;
334
335 /**
336 * @dev External interface of AccessControl declared to support ERC165 detection.
337
```



LINE 438

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

- FITToken.sol

```
437
438 pragma solidity ^0.8.0;
439
440 /**
441 * @dev Interface of the ERC165 standard, as defined in the
442
```



LINE 465

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

- FITToken.sol

```
464
465 pragma solidity ^0.8.0;
466
467 /**
468 * @dev Implementation of the {IERC165} interface.
469
```



LINE 500

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

- FITToken.sol

```
499
500 pragma solidity ^0.8.0;
501
502 /**
503 * @dev Required interface of an ERC721 compliant contract.
504
```



LINE 661

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

- FITToken.sol

```
660
661 pragma solidity ^0.8.0;
662
663 /**
664 * @dev Provides information about the current execution context, including the
665
```



LINE 687

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

- FITToken.sol

```
686
687 pragma solidity ^0.8.0;
688
689 /**
690 * @dev Contract module that allows children to implement role-based access
691
```



LINE 944

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

- FITToken.sol

```
943
944 pragma solidity ^0.8.0;
945
946 /**
947 * @dev Interface of the ERC20 standard as defined in the EIP.
948
```



LINE 1035

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

- FITToken.sol

```
1034
1035 pragma solidity ^0.8.0;
1036
1037 /**
1038 * @dev Interface for the optional metadata functions from the ERC20 standard.
1039
```



LINE 1063

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

- FITToken.sol

```
1062

1063 pragma solidity ^0.8.0;

1064

1065 /**

1066 * @dev Implementation of the {IERC20} interface.

1067
```



LINE 1483

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

- FITToken.sol

```
1482
1483 pragma solidity ^0.8.0;
1484
1485 /**
1486 * @dev Extension of {ERC20} that allows token holders to destroy both their own
1487
```



LINE 1519

low SEVERITY

The current pragma Solidity directive is ""^0.8.2"". 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

- FITToken.sol

```
1518
1519 pragma solidity ^0.8.2;
1520
1521 contract FITToken is ERC20Burnable, AccessControl {
1522 using SafeMath for uint256;
1523
```



LINE 1531

low SEVERITY

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

Source File

- FITToken.sol

```
1530
1531 uint256 buyFeeRate = 0;
1532 uint256 sellFeeRate = 0;
1533 address teamWallet;
1534 uint256 public antiBotTime = 30 seconds;
1535
```



LINE 1532

low SEVERITY

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

Source File

- FITToken.sol

```
uint256 buyFeeRate = 0;
uint256 sellFeeRate = 0;
address teamWallet;
uint256 public antiBotTime = 30 seconds;
mapping(address => bool) public blacklist;
```



LINE 1533

low SEVERITY

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

Source File

- FITToken.sol

```
uint256 sellFeeRate = 0;
address teamWallet;
uint256 public antiBotTime = 30 seconds;
mapping(address => bool) public blacklist;
mapping(address => bool) lpAddresses;
```



LINE 1536

low SEVERITY

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

Source File

- FITToken.sol

```
1535  mapping(address => bool) public blacklist;
1536  mapping(address => bool) lpAddresses;
1537  mapping(address => uint256) lastSwapTimestamp;
1538
1539  modifier antiFrontRunning(address sender, address receipient) {
1540
```



LINE 1537

low SEVERITY

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

Source File

- FITToken.sol

```
1536 mapping(address => bool) lpAddresses;
1537 mapping(address => uint256) lastSwapTimestamp;
1538
1539 modifier antiFrontRunning(address sender, address receipient) {
1540 if (lpAddresses[sender] == true) {
1541
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1559

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- FITToken.sol

```
1558 constructor() ERC20("FIT Token", "FIT") {
1559    _setupRole(DEFAULT_ADMIN_ROLE, tx.origin);
1560    _setupRole(MINTER_ROLE, tx.origin);
1561    teamWallet = tx.origin;
1562    //create FIT/WBNB pair in Pancake swap
1563
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1560

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- FITToken.sol

```
1559    _setupRole(DEFAULT_ADMIN_ROLE, tx.origin);
1560    _setupRole(MINTER_ROLE, tx.origin);
1561    teamWallet = tx.origin;
1562    //create FIT/WBNB pair in Pancake swap
1563    address pair = IPancakeFactory(PANCAKE_FACTORY_ADDRESS).createPair(
1564
```



SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 1561

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- FITToken.sol

```
1560    _setupRole(MINTER_ROLE, tx.origin);
1561    teamWallet = tx.origin;
1562    //create FIT/WBNB pair in Pancake swap
1563    address pair = IPancakeFactory(PANCAKE_FACTORY_ADDRESS).createPair(
1564    address(this),
1565
```



LINE 287

low SEVERITY

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

Source File

- FITToken.sol

```
286 digits -= 1;

287 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));

288 value /= 10;

289 }

290 return string(buffer);

291
```



LINE 318

low SEVERITY

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

Source File

- FITToken.sol

```
317 bytes memory buffer = new bytes(2 * length + 2);
318 buffer[0] = "0";
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321 buffer[i] = _HEX_SYMBOLS[value & 0xf];
322
```



LINE 319

low SEVERITY

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

Source File

- FITToken.sol

```
318 buffer[0] = "0";
319 buffer[1] = "x";
320 for (uint256 i = 2 * length + 1; i > 1; --i) {
321 buffer[i] = _HEX_SYMBOLS[value & 0xf];
322 value >>= 4;
323
```



LINE 321

low SEVERITY

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

Source File

- FITToken.sol

```
320  for (uint256 i = 2 * length + 1; i > 1; --i) {
321  buffer[i] = _HEX_SYMBOLS[value & 0xf];
322  value >>= 4;
323  }
324  require(value == 0, "Strings: hex length insufficient");
325
```



LINE 321

low SEVERITY

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

Source File

- FITToken.sol

```
320  for (uint256 i = 2 * length + 1; i > 1; --i) {
321  buffer[i] = _HEX_SYMBOLS[value & 0xf];
322  value >>= 4;
323  }
324  require(value == 0, "Strings: hex length insufficient");
325
```



LINE 1623

low SEVERITY

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

Source File

- FITToken.sol

```
1622  for (uint256 i = 0; i < addresses.length; i++) {
1623    lpAddresses[addresses[i]] = true;
1624  }
1625  }
1626
1627</pre>
```



LINE 1632

low SEVERITY

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

Source File

- FITToken.sol

```
1631  for (uint256 i = 0; i < addresses.length; i++) {
1632    blacklist[addresses[i]] = isBlacklist;
1633    }
1634  }
1635
1636</pre>
```



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