

SugarYield
Smart Contract
Audit Report





TABLE OF CONTENTS

| Audited Details

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

Summary

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

Conclusion

| Audit Results

Smart Contract Analysis

- Detected Vulnerabilities
- | Disclaimer
- About Us



AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
SugarYield	SUGAR	Binance Smart Chain	

Addresses

Contract address	0x57528b45134f09F2e0069334a36A7e14AF74745F	
Contract deployer address	0xcadbe33ec806a88059FEa4a0F098EAd3afe05c4E	

Project Website

https://sugaryield.com/

Codebase

https://bscscan.com/address/0x57528b45134f09F2e0069334a36A7e14AF74745F#code



SUMMARY

SugarYield.com is a DeFi insurance protocol that allows third-party participants to speculate on the performance of underlying pegged assets depending on their performance histories, including BUSD, DAI,USDT and many other stable tokens.

Contract Summary

Documentation Quality

SugarYield 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 SugarYield with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 128, 138, 146, 165, 167, 179, 180, 194, 196, 506, 507, 507, 552, 552, 552, 553, 553, 604, 611, 611, 658, 685, 685, 689, 690, 690, 690, 714, 714, 716, 727, 728, 743, 771, 773, 776, 776, 781, 781, 789, 815, 815, 853, 853, 857 and 857.
- 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 733, 734, 761 and 762.



CONCLUSION

We have audited the SugarYield project released on January 2023 to discover issues and identify potential security vulnerabilities in SugarYield 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 SugarYield 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, 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	set explicitly. Visibility levels should be specified.		
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.	PASS	
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	1 ,		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	used. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	ly be allowed to trusted 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	5 tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-121 SWC-121		PASS
Incorrect Constructor Name	SWC-118 '		PASS
Shadowing State Variable	SWC-119 State variables should not be shadowed.		PASS
Weak Sources of Randomness	SWC-120		PASS
Write to Arbitrary Storage Location	SWC-124 user or contract accounts may write to sensitive storage		PASS
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/.		identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to	PASS
Insufficient Gas Griefing	SWC-126 contracts which accept data and use it in a sub-call on		PASS
Arbitrary Jump Function 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.	
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 Jan 24 2023 06:54:38 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Jan 25 2023 10:04:05 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	SugarYield.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-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-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



LINE 128

low SEVERITY

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

Source File

- SugarYield.sol

```
127 unchecked {
128 _approve(sender, _msgSender(), currentAllowance - amount);
129 }
130 }
131
132
```



LINE 138

low SEVERITY

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

Source File

- SugarYield.sol

```
function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {

138    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);

139    return true;

140  }

141

142
```



LINE 146

low SEVERITY

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

Source File

- SugarYield.sol

```
145 unchecked {
146   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
147  }
148
149  return true;
150
```



LINE 165

low SEVERITY

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

Source File

- SugarYield.sol

```
164 unchecked {
165  _balances[sender] = senderBalance - amount;
166  }
167  _balances[recipient] += amount;
168
169
```



LINE 167

low SEVERITY

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

Source File

- SugarYield.sol

```
166  }
167  _balances[recipient] += amount;
168
169  emit Transfer(sender, recipient, amount);
170
171
```



LINE 179

low SEVERITY

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

Source File

- SugarYield.sol

```
178
179 _totalSupply += amount;
180 _balances[account] += amount;
181 emit Transfer(address(0), account, amount);
182
183
```



LINE 180

low SEVERITY

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

Source File

- SugarYield.sol

```
__totalSupply += amount;

180    __balances[account] += amount;

181    emit Transfer(address(0), account, amount);

182

183    __afterTokenTransfer(address(0), account, amount);

184
```



LINE 194

low SEVERITY

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

Source File

- SugarYield.sol

```
193 unchecked {
194 _balances[account] = accountBalance - amount;
195 }
196 _totalSupply -= amount;
197
198
```



LINE 196

low SEVERITY

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

Source File

- SugarYield.sol

```
195  }
196  _totalSupply -= amount;
197
198  emit Transfer(account, address(0), amount);
199
200
```



LINE 506

low SEVERITY

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

Source File

- SugarYield.sol

```
505 {
506    require(_arg.buyFee_ + _arg.sellFee_ <= 25, "Total buy and sell fees cannot be more
than 25%");
507    require(_arg.marketingShare_ + _arg.liquidityShare_ + _arg.charityShare_ == 100,
"Total fee shares must be equal to 100");
508    require(_arg.maxTransactionRateBuy_ >= 1 && _arg.maxTransactionRateSell_ >= 1, "Max
transfer rates must be greater than 0.1%");
509    require(_arg.maxWalletLimitRate_ >= 10, "Max wallet limit rate must be greater than
1%");
510
```



LINE 507

low SEVERITY

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

Source File

- SugarYield.sol

```
506    require(_arg.buyFee_ + _arg.sellFee_ <= 25, "Total buy and sell fees cannot be more
than 25%");
507    require(_arg.marketingShare_ + _arg.liquidityShare_ + _arg.charityShare_ == 100,
"Total fee shares must be equal to 100");
508    require(_arg.maxTransactionRateBuy_ >= 1 && _arg.maxTransactionRateSell_ >= 1, "Max
transfer rates must be greater than 0.1%");
509    require(_arg.maxWalletLimitRate_ >= 10, "Max wallet limit rate must be greater than
1%");
510
511
```



LINE 507

low SEVERITY

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

Source File

- SugarYield.sol

```
506    require(_arg.buyFee_ + _arg.sellFee_ <= 25, "Total buy and sell fees cannot be more
than 25%");
507    require(_arg.marketingShare_ + _arg.liquidityShare_ + _arg.charityShare_ == 100,
"Total fee shares must be equal to 100");
508    require(_arg.maxTransactionRateBuy_ >= 1 && _arg.maxTransactionRateSell_ >= 1, "Max
transfer rates must be greater than 0.1%");
509    require(_arg.maxWalletLimitRate_ >= 10, "Max wallet limit rate must be greater than
1%");
510
511
```



LINE 552

low SEVERITY

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

Source File

- SugarYield.sol

```
551
552    swapTokensAtAmount = _arg.totalSupply_ * (10 ** 18) / 5000;
553    _mint(owner(), _arg.totalSupply_ * (10 ** 18));
554
555    emit TokenCreated(owner(), address(this), TokenClass.basicToken, 3);
556
```



LINE 552

low SEVERITY

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

Source File

- SugarYield.sol

```
551
552    swapTokensAtAmount = _arg.totalSupply_ * (10 ** 18) / 5000;
553    _mint(owner(), _arg.totalSupply_ * (10 ** 18));
554
555    emit TokenCreated(owner(), address(this), TokenClass.basicToken, 3);
556
```



LINE 552

low SEVERITY

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

Source File

- SugarYield.sol

```
551
552    swapTokensAtAmount = _arg.totalSupply_ * (10 ** 18) / 5000;
553    _mint(owner(), _arg.totalSupply_ * (10 ** 18));
554
555    emit TokenCreated(owner(), address(this), TokenClass.basicToken, 3);
556
```



LINE 553

low SEVERITY

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

Source File

- SugarYield.sol

```
552  swapTokensAtAmount = _arg.totalSupply_ * (10 ** 18) / 5000;
553  _mint(owner(), _arg.totalSupply_ * (10 ** 18));
554
555  emit TokenCreated(owner(), address(this), TokenClass.basicToken, 3);
556  }
557
```



LINE 553

low SEVERITY

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

Source File

- SugarYield.sol

```
552  swapTokensAtAmount = _arg.totalSupply_ * (10 ** 18) / 5000;
553  _mint(owner(), _arg.totalSupply_ * (10 ** 18));
554
555  emit TokenCreated(owner(), address(this), TokenClass.basicToken, 3);
556  }
557
```



LINE 604

low SEVERITY

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

Source File

- SugarYield.sol

```
function updateFees(uint256 _buyFee, uint256 _sellFee) external onlyOwner {
   require(_buyFee + _sellFee <= 25, "Total buy and sell fees cannot be more than
   25%");
   buyFee = _buyFee;
   sellFee = _sellFee;
   emit FeesUpdated(buyFee, sellFee);
   608</pre>
```



LINE 611

low SEVERITY

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

Source File

- SugarYield.sol

```
function updateFeeShares(uint256 _marketingFeeShare, uint256 _liquidityFeeShare,
uint256 _charityShare) external onlyOwner {
function updateFeeShare) external onlyOwner {
function updateFeeShare) external onlyOwner {
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare;
functi
```



LINE 611

low SEVERITY

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

Source File

- SugarYield.sol

```
function updateFeeShares(uint256 _marketingFeeShare, uint256 _liquidityFeeShare,
uint256 _charityShare) external onlyOwner {
function updateFeeShare) external onlyOwner {
function updateFeeShare) external onlyOwner {
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare + _charityShare == 100, "Total feeshares must be equal to 100");
function updateFeeShare + _liquidityFeeShare;
functi
```



LINE 658

low SEVERITY

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

Source File

- SugarYield.sol

```
657  uint balance = balanceOf(to);
658  require(balance + amount <= maxWalletAmount(), "MaxWallet: Transfer amount exceeds
the maxWalletAmount");
659  }
660  }
661
662</pre>
```



LINE 685

low SEVERITY

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

Source File

- SugarYield.sol

```
684 if(liquidityShare > 0) {
685  uint256 liquidityTokens = contractTokenBalance * liquidityShare / 100;
686  swapAndLiquify(liquidityTokens);
687  }
688
689
```



LINE 685

low SEVERITY

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

Source File

- SugarYield.sol

```
684 if(liquidityShare > 0) {
685  uint256 liquidityTokens = contractTokenBalance * liquidityShare / 100;
686  swapAndLiquify(liquidityTokens);
687  }
688
689
```



LINE 689

low SEVERITY

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

Source File

- SugarYield.sol

```
688
689 if(marketingShare + charityShare > 0) {
690  uint256 feeTokens = (contractTokenBalance * (marketingShare + charityShare)) / 100;
691  swapAndSendFees(feeTokens);
692  }
693
```



LINE 690

low SEVERITY

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

Source File

- SugarYield.sol

```
if(marketingShare + charityShare > 0) {
    uint256 feeTokens = (contractTokenBalance * (marketingShare + charityShare)) / 100;
    swapAndSendFees(feeTokens);
    }
    }
    3
    693
    694
```



LINE 690

low SEVERITY

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

Source File

- SugarYield.sol

```
if(marketingShare + charityShare > 0) {
    uint256 feeTokens = (contractTokenBalance * (marketingShare + charityShare)) / 100;
    swapAndSendFees(feeTokens);
    }
    }
    4
    693
    694
```



LINE 690

low SEVERITY

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

Source File

- SugarYield.sol

```
if(marketingShare + charityShare > 0) {
    uint256 feeTokens = (contractTokenBalance * (marketingShare + charityShare)) / 100;
    swapAndSendFees(feeTokens);
    }
    }
    3
    693
    694
```



LINE 714

low SEVERITY

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

Source File

- SugarYield.sol

```
713 }
714 uint256 fees = amount * _totalFees / 100;
715
716 amount = amount - fees;
717
718
```



LINE 714

low SEVERITY

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

Source File

- SugarYield.sol

```
713 }
714 uint256 fees = amount * _totalFees / 100;
715
716 amount = amount - fees;
717
718
```



LINE 716

low SEVERITY

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

Source File

- SugarYield.sol

```
715
716 amount = amount - fees;
717
718 super._transfer(from, address(this), fees);
719 }
720
```



LINE 727

low SEVERITY

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

Source File

- SugarYield.sol

```
function swapAndLiquify(uint256 tokens) private {
    uint256 half = tokens / 2;
    uint256 otherHalf = tokens - half;
    uint256 initialBalance = address(this).balance;
    131
```



LINE 728

low SEVERITY

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

Source File

- SugarYield.sol

```
727  uint256 half = tokens / 2;
728  uint256 otherHalf = tokens - half;
729
730  uint256 initialBalance = address(this).balance;
731
732
```



LINE 743

low SEVERITY

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

Source File

- SugarYield.sol

```
742
743 uint256 newBalance = address(this).balance - initialBalance;
744
745 uniswapV2Router.addLiquidityETH{value: newBalance}(
746 address(this),
747
```



LINE 771

low SEVERITY

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

Source File

- SugarYield.sol

```
770
771 uint256 newBalance = address(this).balance - initialBalance;
772
773 uint256 bnbShare = marketingShare + charityShare;
774
775
```



LINE 773

low SEVERITY

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

Source File

- SugarYield.sol

```
772
773  uint256 bnbShare = marketingShare + charityShare;
774
775  if(marketingShare > 0) {
776  uint256 marketingBnb = newBalance * marketingShare / bnbShare;
777
```



LINE 776

low SEVERITY

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

Source File

- SugarYield.sol

```
if(marketingShare > 0) {
    if(marketingBhare > 0) {
        vint256 marketingBhb = newBalance * marketingShare / bnbShare;
        sendBNB(payable(marketingWallet), marketingBhb);
    }
    }
    778
}
780
```



LINE 776

low SEVERITY

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

Source File

- SugarYield.sol

```
if(marketingShare > 0) {
    if(marketingBhare > 0) {
        vint256 marketingBhb = newBalance * marketingShare / bnbShare;
        sendBNB(payable(marketingWallet), marketingBhb);
    }
    }
    778
}
780
```



LINE 781

low SEVERITY

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

Source File

- SugarYield.sol

```
if(charityShare > 0) {
    if(charityShare > 0) {
        vint256 charityBnb = newBalance * charityShare / bnbShare;
        sendBNB(payable(charityWallet), charityBnb);
    }
    }
    }
    **T84
    785
```



LINE 781

low SEVERITY

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

Source File

- SugarYield.sol

```
if(charityShare > 0) {
    if(charityShare > 0) {
        uint256 charityBnb = newBalance * charityShare / bnbShare;
        sendBNB(payable(charityWallet), charityBnb);
    }
    }
    }
    **T84
    785
```



LINE 789

low SEVERITY

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

Source File

- SugarYield.sol

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
  require(newAmount > totalSupply() / 100000, "SwapTokensAtAmount must be greater
  than 0.001% of total supply");

swapTokensAtAmount = newAmount;

}

791 }

792

793
```



LINE 815

low SEVERITY

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

Source File

- SugarYield.sol

```
814 function maxWalletAmount() public view returns (uint256) {
815   return totalSupply() * maxWalletLimitRate / 1000;
816  }
817
818   function setMaxWalletRate_Denominator1000(uint256 _val) external onlyOwner
_maxWalletAvailable {
819
```



LINE 815

low SEVERITY

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

Source File

- SugarYield.sol

```
814 function maxWalletAmount() public view returns (uint256) {
815   return totalSupply() * maxWalletLimitRate / 1000;
816  }
817
818   function setMaxWalletRate_Denominator1000(uint256 _val) external onlyOwner
_maxWalletAvailable {
819
```



LINE 853

low SEVERITY

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

Source File

- SugarYield.sol

```
function maxTransferAmountBuy() public view returns (uint256) {
  return totalSupply() * maxTransactionRateBuy / 1000;
  854  }
  855
  function maxTransferAmountSell() public view returns (uint256) {
  857
```



LINE 853

low SEVERITY

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

Source File

- SugarYield.sol

```
function maxTransferAmountBuy() public view returns (uint256) {
  return totalSupply() * maxTransactionRateBuy / 1000;
  854  }
  855
  function maxTransferAmountSell() public view returns (uint256) {
  857
```



LINE 857

low SEVERITY

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

Source File

- SugarYield.sol

```
856 function maxTransferAmountSell() public view returns (uint256) {
857  return totalSupply() * maxTransactionRateSell / 1000;
858  }
859
860  function setMaxTransactionRates_Denominator1000(uint256 _maxTransactionRateBuy,
uint256 _maxTransactionRateSell) external onlyOwner _maxTransactionAvailable {
861
```



LINE 857

low SEVERITY

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

Source File

- SugarYield.sol

```
856 function maxTransferAmountSell() public view returns (uint256) {
857  return totalSupply() * maxTransactionRateSell / 1000;
858  }
859
860  function setMaxTransactionRates_Denominator1000(uint256 _maxTransactionRateBuy,
uint256 _maxTransactionRateSell) external onlyOwner _maxTransactionAvailable {
861
```



LINE 733

low SEVERITY

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

Source File

- SugarYield.sol

```
732 address[] memory path = new address[](2);
733 path[0] = address(this);
734 path[1] = uniswapV2Router.WETH();
735
736 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
737
```



LINE 734

low SEVERITY

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

Source File

- SugarYield.sol

```
path[0] = address(this);
path[1] = uniswapV2Router.WETH();

rate

rate

rate

rate

path[1] = uniswapV2Router.weth();

rate

ra
```



LINE 761

low SEVERITY

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

Source File

- SugarYield.sol

```
address[] memory path = new address[](2);
path[0] = address(this);
path[1] = uniswapV2Router.WETH();

auniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens()

address[] memory path = new address[](2);
path[0] = address(this);

auniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens()
```



LINE 762

low SEVERITY

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

Source File

- SugarYield.sol

```
761 path[0] = address(this);
762 path[1] = uniswapV2Router.WETH();
763
764 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
765 tokenAmount,
766
```



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