



Sheikh Inu

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Sheikh Inu	SHINU	Binance Smart Chain

Addresses

Contract address	0xE5b5d4Bea7468B4994FA676949308a79497aa24c
Contract deployer address	0xf5B87F2D9eb0923a8f274c277CC96429D375321f

Project Website

<https://sheikhinu.io/>

Codebase

<https://bscscan.com/address/0xE5b5d4Bea7468B4994FA676949308a79497aa24c#code>

SUMMARY

Sheikh Inu \$SHINU Marhaba traveller! Welcome to Baba Sheikh's oasis. A heavenly refueling place for every adventurer seeking treasure. Fancy a nice dastarkhan on the brink of the oasis lake? Join us on the trip to the desert treasures: -Experienced Team -Trusted Deployer -Top Backers -BSC #BNB Cult -2023 Bullrun Kickstart.

Contract Summary

Documentation Quality

Sheikh 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 Sheikh Inu 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 198, 220, 245, 274, 275, 404, 404, 405, 405, 406, 406, 407, 407, 440, 440, 472, 482, 493, 516, 523, 527, 540, 549, 555, 564, 564, 571, 575, 575, 595, 596, 596, 597, 603, 604, 604, 605, 612, 612, 661, 661, 669, 677, 704, 714, 723, 723, 724, 724, 725 and 725.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11.
- 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 623, 624 and 715.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 540 and 689.

CONCLUSION

We have audited the Sheikh Inu project released on January 2023 to discover issues and identify potential security vulnerabilities in Sheikh 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 Sheikh 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 set, weak sources of randomness, 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. We recommend to Don't using any of those environment variables as sources of randomness and being aware that the use of these variables introduces a certain level of trust in miners.

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.	PASS
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.	ISSUE FOUND
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 Jan 31 2023 18:50:56 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Feb 01 2023 19:26:16 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	SheikhInu.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-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-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-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 198

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
197     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
198     _approve(sender, _msgSender(), currentAllowance - amount);
199
200     return true;
201 }
202
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 220

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
219  {
220  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
221  return true;
222  }
223
224
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 245

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
244   require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
245   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
246
247   return true;
248   }
249
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 274

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
273   require(senderBalance >= amount, "BEP20: transfer amount exceeds balance");
274   _balances[sender] = senderBalance - amount;
275   _balances[recipient] += amount;
276
277   emit Transfer(sender, recipient, amount);
278
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 275

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
274  _balances[sender] = senderBalance - amount;  
275  _balances[recipient] += amount;  
276  
277  emit Transfer(sender, recipient, amount);  
278  }  
279
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 404

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
403
404  uint256 public tokenLiquidityThreshold = 1e9 * 10**18; // 0.1%
405  uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406  uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407  uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 404

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
403
404  uint256 public tokenLiquidityThreshold = 1e9 * 10**18; // 0.1%
405  uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406  uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407  uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 405

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
404 uint256 public tokenLiquidityThreshold = 1e9 * 10**18; // 0.1%
405 uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 405

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
404 uint256 public tokenLiquidityThreshold = 1e9 * 10**18; // 0.1%
405 uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 406

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
405 uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409 uint256 public genesis_block;
410
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 406

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
405 uint256 public maxBuyLimit = 1e10 * 10**18; // 1%
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409 uint256 public genesis_block;
410
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 407

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409 uint256 public genesis_block;
410 uint256 private deadline = 3;
411
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 407

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
406 uint256 public maxSellLimit = 1e10 * 10**18; // 1%
407 uint256 public maxWalletLimit = 1e10 * 10**18; // 1%
408
409 uint256 public genesis_block;
410 uint256 private deadline = 3;
411
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 440

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
439     constructor() BEP20("Sheikh Inu", "SHINU") {
440         _tokengeneration(msg.sender, 1e12 * 10**decimals());
441
442         IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
443         // Create a pancake pair for this new token
444     }
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 440

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
439     constructor() BEP20("Sheikh Inu", "SHINU") {
440         _tokengeneration(msg.sender, 1e12 * 10**decimals());
441     }
442     IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
443     // Create a pancake pair for this new token
444 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 472

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
471     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
472     _approve(sender, _msgSender(), currentAllowance - amount);
473
474     return true;
475 }
476
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 482

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
481  {
482  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
483  return true;
484  }
485
486
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 493

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
492   require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
493   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
494
495   return true;
496   }
497
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 516

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
515     require(amount <= maxBuyLimit, "You are exceeding maxBuyLimit");
516     require(balanceOf(recipient) + amount <= maxWalletLimit, "You are exceeding
maxWalletLimit");
517     }
518
519     if (sender != pair && !exemptFee[recipient] && !exemptFee[sender] && !_interlock) {
520
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 523

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
522   if (recipient != pair) {
523     require(balanceOf(recipient) + amount <= maxWalletLimit, "You are exceeding
maxWalletLimit");
524   }
525
526   if (coolDownEnabled) {
527
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 527

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
526     if (cooldownEnabled) {
527         uint256 timePassed = block.timestamp - _lastSell[sender];
528         require(timePassed >= cooldownTime, "Cooldown enabled");
529         _lastSell[sender] = block.timestamp;
530     }
531 
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 540

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
539 !exemptFee[recipient] &&  
540 block.number < genesis_block + deadline;  
541  
542 //set fee to zero if fees in contract are handled or exempted  
543 if (_interlock || exemptFee[sender] || exemptFee[recipient])  
544
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 549

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
548     feeswap =
549     sellTaxes.liquidity +
550     sellTaxes.marketing;
551     feesum = feeswap;
552     currentTaxes = sellTaxes;
553
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 555

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
554 feeswap =  
555 taxes.liquidity +  
556 taxes.marketing;  
557 feesum = feeswap;  
558 currentTaxes = taxes;  
559
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 564

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
563
564     fee = (amount * feesum) / 100;
565
566     //send fees if threshold has been reached
567     //don't do this on buys, breaks swap
568
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 564

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
563
564     fee = (amount * feesum) / 100;
565
566     //send fees if threshold has been reached
567     //don't do this on buys, breaks swap
568
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 571

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
570 //rest to recipient
571 super._transfer(sender, recipient, amount - fee);
572 if (fee > 0) {
573 //send the fee to the contract
574 if (feeswap > 0) {
575
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 575

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
574  if (feeswap > 0) {  
575      uint256 feeAmount = (amount * feeswap) / 100;  
576      super._transfer(sender, address(this), feeAmount);  
577  }  
578  
579
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 575

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
574  if (feeswap > 0) {  
575      uint256 feeAmount = (amount * feeswap) / 100;  
576      super._transfer(sender, address(this), feeAmount);  
577  }  
578  
579
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 595

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
594 // Split the contract balance into halves
595 uint256 denominator = feeswap * 2;
596 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
denominator;
597 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
598
599
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 596

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
595 uint256 denominator = feeswap * 2;
596 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
denominator;
597 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
598
599 uint256 initialBalance = address(this).balance;
600
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 596

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
595 uint256 denominator = feeswap * 2;
596 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
denominator;
597 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
598
599 uint256 initialBalance = address(this).balance;
600
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 597

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
596  uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
denominator;
597  uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
598
599  uint256 initialBalance = address(this).balance;
600
601
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 603

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
602
603  uint256 deltaBalance = address(this).balance - initialBalance;
604  uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
605  uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
606
607
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 604

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
603 uint256 deltaBalance = address(this).balance - initialBalance;
604 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
605 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
606
607 if (ethToAddLiquidityWith > 0) {
608
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 604

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
603  uint256 deltaBalance = address(this).balance - initialBalance;
604  uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
605  uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
606
607  if (ethToAddLiquidityWith > 0) {
608
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 605

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
604 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
605 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
606
607 if (ethToAddLiquidityWith > 0) {
608     // Add liquidity to pancake
609 }
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 612

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
611
612  uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;
613  if (marketingAmt > 0) {
614    payable(marketingWallet).sendValue(marketingAmt);
615  }
616
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 612

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
611
612  uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;
613  if (marketingAmt > 0) {
614    payable(marketingWallet).sendValue(marketingAmt);
615  }
616
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
660   require(new_amount <= 1e10, "Swap threshold amount should be lower or equal to 1%
of tokens");
661   tokenLiquidityThreshold = new_amount * 10**decimals();
662   }
663
664   function SetBuyTaxes(
665
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
660   require(new_amount <= 1e10, "Swap threshold amount should be lower or equal to 1%
of tokens");
661   tokenLiquidityThreshold = new_amount * 10**decimals();
662   }
663
664   function SetBuyTaxes(
665
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 669

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
668     taxes = Taxes(_marketing, _liquidity);
669     require((_marketing + _liquidity) <= 10, "Must keep fees at 10% or less");
670 }
671
672 function SetSellTaxes(
673
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 677

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
676     sellTaxes = Taxes(_marketing, _liquidity);
677     require((_marketing + _liquidity) <= 10, "Must keep fees at 10% or less");
678     }
679
680     function updateRouterAndPair(address newRouter, address newPair) external onlyOwner
681     {
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 704

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
703 function updateCooldown(bool state, uint256 time) external onlyOwner {  
704     coolDownTime = time * 1 seconds;  
705     coolDownEnabled = state;  
706     require(time <= 300, "cooldown timer cannot exceed 5 minutes");  
707 }  
708
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 714

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
713     function bulkExemptFee(address[] memory accounts, bool state) external onlyOwner {
714         for (uint256 i = 0; i < accounts.length; i++) {
715             exemptFee[accounts[i]] = state;
716         }
717     }
718 }
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 723

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
722   require(maxWallet >= 1e10, "Cannot set max wallet amount lower than 1%");
723   maxBuyLimit = maxBuy * 10**decimals();
724   maxSellLimit = maxSell * 10**decimals();
725   maxWalletLimit = maxWallet * 10**decimals();
726   }
727
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 723

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
722   require(maxWallet >= 1e10, "Cannot set max wallet amount lower than 1%");
723   maxBuyLimit = maxBuy * 10**decimals();
724   maxSellLimit = maxSell * 10**decimals();
725   maxWalletLimit = maxWallet * 10**decimals();
726   }
727
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 724

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
723     maxBuyLimit = maxBuy * 10**decimals();
724     maxSellLimit = maxSell * 10**decimals();
725     maxWalletLimit = maxWallet * 10**decimals();
726     }
727
728
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 724

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
723     maxBuyLimit = maxBuy * 10**decimals();
724     maxSellLimit = maxSell * 10**decimals();
725     maxWalletLimit = maxWallet * 10**decimals();
726 }
727
728
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 725

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
724     maxSellLimit = maxSell * 10**decimals();
725     maxWalletLimit = maxWallet * 10**decimals();
726 }
727
728     function rescueBNB(uint256 weiAmount) external onlyOwner {
729
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 725

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
724     maxSellLimit = maxSell * 10**decimals();
725     maxWalletLimit = maxWallet * 10**decimals();
726   }
727
728   function rescueBNB(uint256 weiAmount) external onlyOwner {
729
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 11

low SEVERITY

The current pragma Solidity directive is `""^0.8.8""`. 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

- SheikhInu.sol

Locations

```
10
11  pragma solidity ^0.8.8;
12
13  abstract contract Context {
14  function _msgSender() internal view virtual returns (address) {
15
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 623

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
622 address[] memory path = new address[](2);
623 path[0] = address(this);
624 path[1] = router.WETH();
625
626 _approve(address(this), address(router), tokenAmount);
627
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 624

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
623     path[0] = address(this);
624     path[1] = router.WETH();
625
626     _approve(address(this), address(router), tokenAmount);
627
628
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 715

low SEVERITY

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

Source File

- SheikhInu.sol

Locations

```
714   for (uint256 i = 0; i < accounts.length; i++) {  
715     exemptFee[accounts[i]] = state;  
716   }  
717 }  
718  
719
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 540

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SheikhInu.sol

Locations

```
539     !exemptFee[recipient] &&  
540     block.number < genesis_block + deadline;  
541  
542     //set fee to zero if fees in contract are handled or exempted  
543     if (_interlock || exemptFee[sender] || exemptFee[recipient])  
544
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 689

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SheikhInu.sol

Locations

```
688 providingLiquidity = true;
689 genesis_block = block.number;
690 }
691
692 function updateddeadline(uint256 _deadline) external onlyOwner {
693
```

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