DreamPad Capital

Smart Contract Audit Report

SYSFIXED

02 Feb 2023

TABLE OF CONTENTS

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
DreamPad Capital	DreamPad	Binance Smart Chain

Addresses

Contract address	0x3735f21175fF2292f3b05E105852E8EE90B36aF9
Contract deployer address	0x776E6674949f1654D60DB255037a662691866afe

Project Website

https://dreampad.capital/

Codebase

https://bscscan.com/address/0x3735f21175fF2292f3b05E105852E8EE90B36aF9#code

SUMMARY

a very fresh perspective and a project that offers incentives to all in one way or another. DreamPad Capital has developed unique farming as a Service (FaaS) along with options to Stake and earn BNB. DreamPad is offering a 0% Tax opportunity for its early investors to make the most of this project we've developed.

Contract Summary

Documentation Quality

DreamPad Capital 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 DreamPad Capital 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 793, 793, 801, 801, 801, 803, 803, 944, 957, 970, 1029, 1032, 1044, 1044, 1046, 1046, 1049, 1049, 1051, 1051, 1109, 1109, 1109, 1110, 1110, 1110, 1111, 1111, 1111, 1112, 1112, 1112, 1127, 1129, 1140, 1140, 1141, 1146, 1173, 1195, 1195 and 1195.
- 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 1066 and 1067.

CONCLUSION

We have audited the DreamPad Capital project released on February 2023 to discover issues and identify potential security vulnerabilities in DreamPad Capital 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 DreamPad Capital 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	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.	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	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

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

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	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	Wednesday Feb 01 2023 00:15:51 GMT+0000 (Coordinated Universal Time)
Finished	Thursday Feb 02 2023 14:08:50 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	DreamPad.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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 793

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
792   uint256 private constant MAX = ~uint256(0);
793   uint256 private _tTotal = 10_000_000_000 * 10**_decimals;
794
795
796   //Tax Definition for Contraact
797
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 793

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
792   uint256 private constant MAX = ~uint256(0);
793   uint256 private _tTotal = 10_000_000_000 * 10**_decimals;
794
795
796   //Tax Definition for Contraact
797
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 801

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
800   uint256 public _reserveFee = 1;
801   uint256 public totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee +
_reserveFee;
802   //Definition for the swapAndLiquify Trigger.
803   uint256 private minimumTokensBeforeSwap = 1_000_000 * 10**_decimals;
804   //Swap Controls
805
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 801

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
800   uint256 public _reserveFee = 1;
801   uint256 public totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee +
_reserveFee;
802   //Definition for the swapAndLiquify Trigger.
803   uint256 private minimumTokensBeforeSwap = 1_000_000 * 10**_decimals;
804   //Swap Controls
805
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 801

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
800   uint256 public _reserveFee = 1;
801   uint256 public totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee +
_reserveFee;
802   //Definition for the swapAndLiquify Trigger.
803   uint256 private minimumTokensBeforeSwap = 1_000_000 * 10**_decimals;
804   //Swap Controls
805
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 803

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
802   //Definition for the swapAndLiquify Trigger.
803   uint256 private minimumTokensBeforeSwap = 1_000_000 * 10**_decimals;
804   //Swap Controls
805   uint256 public constant swapOutput = 0;
806   //Trading Controls added for SAFU Requirements
807
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 803

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
802   //Definition for the swapAndLiquify Trigger.
803   uint256 private minimumTokensBeforeSwap = 1_000_000 * 10**_decimals;
804   //Swap Controls
805   uint256 public constant swapOutput = 0;
806   //Trading Controls added for SAFU Requirements
807
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 944

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
943   _msgSender(),
944   _allowances[sender][_msgSender()] - amount
945   );
946   return true;
947   }
948
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 957

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
956   spender,
957   _allowances[_msgSender()][spender] + addedValue
958   );
959   return true;
960   }
961
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 970

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
969   spender,
970   _allowances[_msgSender()][spender] - subtractedValue
971   );
972   return true;
973   }
974
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1029

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1028   uint256 initialBalance = address(this).balance;
1029   uint256 halfLiquidityTokens = liquidityTokensCollected / 2;
1030   swapTokensForEth(halfLiquidityTokens);
1031
1032   uint256 newBalance = address(this).balance - initialBalance;
1033
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1032

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1031
1032   uint256 newBalance = address(this).balance - initialBalance;
1033   addLiquidity(halfLiquidityTokens, newBalance);
1034   emit SwapAndLiquify(
1035   halfLiquidityTokens,
1036
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1044

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1043
1044   uint256 walletsTotal = treasureTokensCollected + marketingTokensCollected +
reserveTokensCollected;
1045
1046   uint256 ethForTreasure = (newBalance * treasureTokensCollected) /
1047   walletsTotal;
1048
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1044

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1043
1044   uint256 walletsTotal = treasureTokensCollected + marketingTokensCollected +
reserveTokensCollected;
1045
1046   uint256 ethForTreasure = (newBalance * treasureTokensCollected) /
1047   walletsTotal;
1048
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1046

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1045
1046   uint256 ethForTreasure = (newBalance * treasureTokensCollected) /
1047   walletsTotal;
1048
1049   uint256 ethForMarketing = (newBalance * marketingTokensCollected) / walletsTotal;
1050
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1046

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1045
1046   uint256 ethForTreasure = (newBalance * treasureTokensCollected) /
1047   walletsTotal;
1048
1049   uint256 ethForMarketing = (newBalance * marketingTokensCollected) / walletsTotal;
1050
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1049

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1048
1049   uint256 ethForMarketing = (newBalance * marketingTokensCollected) / walletsTotal;
1050
1051   uint256 ethForReserve = (newBalance * reserveTokensCollected) / walletsTotal;
1052
1053
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1049

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1048
1049   uint256 ethForMarketing = (newBalance * marketingTokensCollected) / walletsTotal;
1050
1051   uint256 ethForReserve = (newBalance * reserveTokensCollected) / walletsTotal;
1052
1053
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1051

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1050
1051   uint256 ethForReserve = (newBalance * reserveTokensCollected) / walletsTotal;
1052
1053   transferToAddressETH(treasureWalletAddress, ethForTreasure);
1054   transferToAddressETH(marketingWalletAddress, ethForMarketing);
1055
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1051

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1050
1051   uint256 ethForReserve = (newBalance * reserveTokensCollected) / walletsTotal;
1052
1053   transferToAddressETH(treasureWalletAddress, ethForTreasure);
1054   transferToAddressETH(marketingWalletAddress, ethForMarketing);
1055
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1109

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1108   function countUpFeeShare(uint256 amount) private {
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1109

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1108   function countUpFeeShare(uint256 amount) private {
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1109

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1108   function countUpFeeShare(uint256 amount) private {
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1110

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1110

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1110

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1109   liquidityTokensCollected += (amount * _liquidityFee) / 100;
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1111

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1111

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1111

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1110   treasureTokensCollected += (amount * _treasureFee) / 100;
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 1112

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115   function _transferBothExcluded(
1116
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1112

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115   function _transferBothExcluded(
1116
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1112

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1111   marketingTokensCollected += (amount * _marketingFee) / 100;
1112   reserveTokensCollected += (amount * _reserveFee) / 100;
1113   }
1114
1115   function _transferBothExcluded(
1116
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1127

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1126   }
1127   _tOwned[sender] = _tOwned[sender] - tAmount;
1128
1129   _tOwned[recipient] = _tOwned[recipient] + tTransferAmount;
1130
1131
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1129

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1128
1129   _tOwned[recipient] = _tOwned[recipient] + tTransferAmount;
1130
1131   emit Transfer(sender, recipient, tTransferAmount);
1132   }
1133
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1140

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1139   //uint256 tFee = calculateTaxFee(tAmount);
1140   uint256 tLiquidity = (tAmount * totalSwapableFee) / 100;
1141   uint256 tTransferAmount = (tAmount) - tLiquidity;
1142   return (tTransferAmount, tLiquidity);
1143   }
1144
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1140

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1139   //uint256 tFee = calculateTaxFee(tAmount);
1140   uint256 tLiquidity = (tAmount * totalSwapableFee) / 100;
1141   uint256 tTransferAmount = (tAmount) - tLiquidity;
1142   return (tTransferAmount, tLiquidity);
1143   }
1144
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1141

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1140   uint256 tLiquidity = (tAmount * totalSwapableFee) / 100;
1141   uint256 tTransferAmount = (tAmount) - tLiquidity;
1142   return (tTransferAmount, tLiquidity);
1143   }
1144
1145
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1146

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1145   function _takeLiquidity(uint256 tLiquidity) private {
1146   _tOwned[address(this)] = _tOwned[address(this)] + tLiquidity;
1147   //emit Transfer(address(0), address(this), tLiquidity);
1148   }
1149   //Include, Exclude from Fees and a view to confirm.
1150
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1173

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1172   {
1173   require(_minimumTokensBeforeSwap >_tTotal / 1_000_000,
"setNumTokensSellToAddToLiquidity must be greater than 0.0001% of total supply");
1174   minimumTokensBeforeSwap = _minimumTokensBeforeSwap;
1175   emit Log("We have updated minimunTokensBeforeSwap to:",minimumTokensBeforeSwap);
1176   }
1177
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1195

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1194   _reserveFee = _newReserveFee;
1195   totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee + _reserveFee;
1196   emit Log("We have updated the total taxes to",totalSwapableFee);
1197
1198   }
1199
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1195

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1194   _reserveFee = _newReserveFee;
1195   totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee + _reserveFee;
1196   emit Log("We have updated the total taxes to",totalSwapableFee);
1197
1198   }
1199
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1195

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1194   _reserveFee = _newReserveFee;
1195   totalSwapableFee = _treasureFee + _liquidityFee + _marketingFee + _reserveFee;
1196   emit Log("We have updated the total taxes to",totalSwapableFee);
1197
1198   }
1199
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1066

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1065   address[] memory path = new address[](2);
1066   path[0] = address(this);
1067   path[1] = uniswapV2Router.WETH();
1068   _approve(address(this), address(uniswapV2Router), tokenAmount);
1069
1070
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1067

low SEVERITY

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

Source File

- DreamPad.sol

Locations

```
1066   path[0] = address(this);
1067   path[1] = uniswapV2Router.WETH();
1068   _approve(address(this), address(uniswapV2Router), tokenAmount);
1069
1070   // make the swap
1071
```

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