

Dejitaru Tsuka
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Dejitaru Tsuka	TSUKA	Ethereum

Addresses

Contract address	0xc5fB36dd2fb59d3B98dEfF88425a3F425Ee469eD
Contract deployer address	0x8242e56a759aa0B069B9c983fe3f582020CD1eC9

Project Website

https://www.dejitarutsuka.io/

Codebase

https://etherscan.io/address/0xc5fB36dd2fb59d3B98dEfF88425a3F425Ee469eD#code



SUMMARY

Dejitaru Tsuka is aiming to become the biggest community driven token in the crypto space. It was created by a mysterious dev, who has been communicating with the community through Etherscan ever since. There are clear signs of evidence leading to the one & only, Ryoshi, being the creator. This could very well be the next GEM that has emerged during a bear market.

Contract Summary

Documentation Quality

Dejitaru Tsuka 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 Dejitaru Tsuka 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 83, 98, 106, 107, 121, 175, 175, 176, 176, 201, 201, 202, 202, 203, 203, 352, 431 and 583.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 12.
- 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 398, 399, 432 and 584.



CONCLUSION

We have audited the Dejitaru Tsuka project released on May 2022 to discover issues and identify potential security vulnerabilities in Dejitaru Tsuka 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 Dejitaru Tsuka smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set 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.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.		
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.		
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107	7 Check effect interaction pattern should be followed if the code performs recursive call.		
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.		
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used. PAS		
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



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	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-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124 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/.		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.	
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.	PASS



SMART CONTRACT ANALYSIS

Started	Thursday May 26 2022 22:03:09 GMT+0000 (Coordinated Universal Time)		
Finished	Friday May 27 2022 23:46:03 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	DejitaruTsuka.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-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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 83

low SEVERITY

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

Source File

- DejitaruTsuka.sol

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



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 98

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
97 require(b <= a, errorMessage);
98 uint256 c = a - b;
99 return c;
100 }
101
102
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 106

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
105  }
106  uint256 c = a * b;
107  require(c / a == b, "SafeMath: multiplication overflow");
108  return c;
109  }
110
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 107

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
106    uint256    c = a * b;
107    require(c / a == b, "SafeMath: multiplication overflow");
108    return c;
109    }
110
111
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 121

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
120 require(b > 0, errorMessage);
121 uint256 c = a / b;
122 return c;
123 }
124 }
125
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 175

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 private constant MAX = ~uint256(0);
uint256 private constant _tTotal = 10000000000 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
uint256 private _redisFeeOnBuy = 0;
179
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 175

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 private constant MAX = ~uint256(0);
uint256 private constant _tTotal = 10000000000 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
uint256 private _redisFeeOnBuy = 0;
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 176

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 private constant _tTotal = 10000000000 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
uint256 private _redisFeeOnBuy = 0;
uint256 private _taxFeeOnBuy = 0;
179 uint256 private _taxFeeOnBuy = 0;
180
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 176

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 private constant _tTotal = 10000000000 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
uint256 private _redisFeeOnBuy = 0;
uint256 private _taxFeeOnBuy = 0;
179 uint256 private _taxFeeOnBuy = 0;
180
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 201

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
200
201    uint256    public _maxTxAmount = 200000000 * 10**9;
202    uint256    public _maxWalletSize = 200000000 * 10**9;
203    uint256    public _swapTokensAtAmount = 10000 * 10**9;
204
205
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 201

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
200
201    uint256    public _maxTxAmount = 200000000 * 10**9;
202    uint256    public _maxWalletSize = 200000000 * 10**9;
203    uint256    public _swapTokensAtAmount = 10000 * 10**9;
204
205
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 202

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
201    uint256    public _maxTxAmount = 20000000 * 10**9;
202    uint256    public _maxWalletSize = 20000000 * 10**9;
203    uint256    public _swapTokensAtAmount = 10000 * 10**9;
204
205    event MaxTxAmountUpdated(uint256 _maxTxAmount);
206
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 202

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
201    uint256    public _maxTxAmount = 20000000 * 10**9;
202    uint256    public _maxWalletSize = 20000000 * 10**9;
203    uint256    public _swapTokensAtAmount = 10000 * 10**9;
204
205    event MaxTxAmountUpdated(uint256 _maxTxAmount);
206
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 203

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 public _maxWalletSize = 20000000 * 10**9;
uint256 public _swapTokensAtAmount = 10000 * 10**9;

event MaxTxAmountUpdated(uint256 _maxTxAmount);

modifier lockTheSwap {

207
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 203

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
uint256 public _maxWalletSize = 20000000 * 10**9;
uint256 public _swapTokensAtAmount = 10000 * 10**9;

event MaxTxAmountUpdated(uint256 _maxTxAmount);

modifier lockTheSwap {

207
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 352

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
351  if(to != uniswapV2Pair) {
352  require(balanceOf(to) + amount < _maxWalletSize, "TOKEN: Balance exceeds wallet
size!");
353  }
354
355  uint256 contractTokenBalance = balanceOf(address(this));
356</pre>
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 431

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
function blockBots(address[] memory bots_) public onlyOwner {
for (uint256 i = 0; i < bots_.length; i++) {
 bots[bots_[i]] = true;
}

433  }

434 }

435</pre>
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 583

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
582 function excludeMultipleAccountsFromFees(address[] calldata accounts, bool
excluded) public onlyOwner {
583   for(uint256 i = 0; i < accounts.length; i++) {
584   _isExcludedFromFee[accounts[i]] = excluded;
585  }
586  }
587</pre>
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 12

low SEVERITY

The current pragma Solidity directive is ""^0.8.9"". 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

- DejitaruTsuka.sol

```
11  // SPDX-License-Identifier: Unlicensed
12  pragma solidity ^0.8.9;
13
14  abstract contract Context {
15  function _msgSender() internal view virtual returns (address) {
16
```



LINE 398

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
address[] memory path = new address[](2);

path[0] = address(this);

path[1] = uniswapV2Router.WETH();

approve(address(this), address(uniswapV2Router), tokenAmount);

uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(

402
```



LINE 399

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
398 path[0] = address(this);
399 path[1] = uniswapV2Router.WETH();
400 _approve(address(this), address(uniswapV2Router), tokenAmount);
401 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
402 tokenAmount,
403
```



LINE 432

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
431 for (uint256 i = 0; i < bots_.length; i++) {
432  bots[bots_[i]] = true;
433  }
434  }
435
436</pre>
```



LINE 584

low SEVERITY

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

Source File

- DejitaruTsuka.sol

```
583  for(uint256 i = 0; i < accounts.length; i++) {
584   _isExcludedFromFee[accounts[i]] = excluded;
585  }
586  }
587
588</pre>
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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