



LaunchVerse 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
LaunchVerse	XLV	BSC

Addresses

Contract address	0x2304AE9aF71a5AE1b92f0091aC3caF105C67766
Contract deployer address	0x7b7943394B172Be0Af3961E01c33AB4bcF195d77

Project Website

<https://launchverse.space/>

Codebase

<https://bscscan.com/address/0x2304AE9aF71a5AE1b92f0091aC3caF105C67766#code>

SUMMARY

Launchverse is a Data Aggregator - a Crypto Investing Platform. Web3 investing solutions with multi earning ways. XLV is the first cryptocurrency that reflects promising tokens at their IDO stages. Hold XLV & Earn many other tokens from best performing Launchpads. Unique multiplied version of passive income. Launchverse has Data Aggregation, NFT Exhibition, Staking Seed Pad, and Dapps Ready. Launchverse is no private sale and no unlocked token. Launchverse also has CMC listed, CG fast track, LV tracking tool, huge marketing, partnerships, and CEX listing.

Contract Summary

Documentation Quality

LaunchVerse provides a document with a good standard of solidity base code.

- The technical description is provided clearly and structured.

Code Quality

The Overall quality of the basecode is GOOD with only 2 low-risk issues

- Standart solidity basecode and rules are already followed with LaunchVerse Project .

Test Coverage

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

Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 61, 79, 98, 99, 116, 132, 147, 161, 175, 189, 205, 228, 255, 281, 294, 298, 310, 317, 326, 754, 755, 755, 771, 999, 1001, 1130, 1211, 1001.
- SWC-103 | A floating pragma is set on lines 6.
- SWC-108 | State variable visibility is not set on lines 776. It is best practice to set the visibility of state variables explicitly. The default visibility for "protections" is internal. Other possible visibility settings are public and private.
- SWC-110 | Out of bounds array access on lines 1000, 1001, 1132, 1133, 1135, 1136, 1301, 1302.

CONCLUSION

We have audited the LaunchVerse Coin which has been released to discover issues and identify potential security vulnerabilities in LaunchVerseProject. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with a low-risk issue on the contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that were found were asserted violation and a floating pragma set.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	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
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	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 Caller	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
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
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

SMART CONTRACT ANALYSIS

Started	Tue May 3 2023 07:31:58 GMT+0000 (Coordinated Universal Time)
Finished	Wed May 4 2023 08:31:58 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	XLV.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

LINE 61

low SEVERITY

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

Source File

- XLV.sol

Locations

```
60  unchecked {  
61    uint256 c = a + b;  
62    if (c < a) return (false, 0);  
63    return (true, c);  
64  }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 79

low SEVERITY

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

Source File

- XLV.sol

Locations

```
78     if (b > a) return (false, 0);
79     return (true, a - b);
80   }
81   }
82
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 98

low SEVERITY

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

Source File

- XLV.sol

Locations

```
97  if (a == 0) return (true, 0);
98  uint256 c = a * b;
99  if (c / a != b) return (false, 0);
100  return (true, c);
101  }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 99

low SEVERITY

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

Source File

- XLV.sol

Locations

```
98  uint256 c = a * b;
99  if (c / a != b) return (false, 0);
100  return (true, c);
101  }
102  }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 116

low SEVERITY

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

Source File

- XLV.sol

Locations

```
115     if (b == 0) return (false, 0);
116     return (true, a / b);
117   }
118   }
119
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- XLV.sol

Locations

```
131   if (b == 0) return (false, 0);
132   return (true, a % b);
133   }
134   }
135
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 147

low SEVERITY

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

Source File

- XLV.sol

Locations

```
146     function add(uint256 a, uint256 b) internal pure returns (uint256) {  
147         return a + b;  
148     }  
149  
150     /**
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 161

low SEVERITY

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

Source File

- XLV.sol

Locations

```
160  function sub(uint256 a, uint256 b) internal pure returns (uint256) {  
161  return a - b;  
162  }  
163  
164  /**
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 175

low SEVERITY

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

Source File

- XLV.sol

Locations

```
174 function mul(uint256 a, uint256 b) internal pure returns (uint256) {  
175     return a * b;  
176 }  
177  
178 /**
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 189

low SEVERITY

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

Source File

- XLV.sol

Locations

```
188     function div(uint256 a, uint256 b) internal pure returns (uint256) {  
189         return a / b;  
190     }  
191  
192     /**
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 205

low SEVERITY

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

Source File

- XLV.sol

Locations

```
204     function mod(uint256 a, uint256 b) internal pure returns (uint256) {  
205         return a % b;  
206     }  
207  
208     /**
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 228

low SEVERITY

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

Source File

- XLV.sol

Locations

```
227   require(b <= a, errorMessage);  
228   return a - b;  
229   }  
230   }  
231
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 255

low SEVERITY

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

Source File

- XLV.sol

Locations

```
254     require(b > 0, errorMessage);  
255     return a / b;  
256   }  
257   }  
258
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 281

low SEVERITY

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

Source File

- XLV.sol

Locations

```
280     require(b > 0, errorMessage);  
281     return a % b;  
282 }  
283 }  
284 }
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 294

low SEVERITY

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

Source File

- XLV.sol

Locations

```
293 function mul(int256 a, int256 b) internal pure returns (int256) {  
294     int256 c = a * b;  
295  
296     // Detect overflow when multiplying MIN_INT256 with -1  
297     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 298

low SEVERITY

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

Source File

- XLV.sol

Locations

```
297   require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
298   require((b == 0) || (c / b == a));
299   return c;
300 }
301
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 310

low SEVERITY

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

Source File

- XLV.sol

Locations

```
309 // Solidity already throws when dividing by 0.  
310 return a / b;  
311 }  
312  
313 /**
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 317

low SEVERITY

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

Source File

- XLV.sol

Locations

```
316 function sub(int256 a, int256 b) internal pure returns (int256) {  
317     int256 c = a - b;  
318     require((b >= 0 && c <= a) || (b < 0 && c > a));  
319     return c;  
320 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 326

low SEVERITY

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

Source File

- XLV.sol

Locations

```
325 function add(int256 a, int256 b) internal pure returns (int256) {  
326     int256 c = a + b;  
327     require((b >= 0 && c >= a) || (b < 0 && c < a));  
328     return c;  
329 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 754

low SEVERITY

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

Source File

- XLV.sol

Locations

```
753  uint256 private constant MAX = ~uint256(0);  
754  uint256 private _tTotal = 1000 * 10**6 * 10**9;  
755  uint256 private _rTotal = (MAX - (MAX % _tTotal));  
756  uint256 private _tFeeTotal;  
757
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 755

low SEVERITY

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

Source File

- XLV.sol

Locations

```
754  uint256 private _tTotal = 1000 * 10**6 * 10**9;  
755  uint256 private _rTotal = (MAX - (MAX % _tTotal));  
756  uint256 private _tFeeTotal;  
757  
758  string private _name = "LaunchVerse";
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 755

low SEVERITY

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

Source File

- XLV.sol

Locations

```
754  uint256 private _tTotal = 1000 * 10**6 * 10**9;  
755  uint256 private _rTotal = (MAX - (MAX % _tTotal));  
756  uint256 private _tFeeTotal;  
757  
758  string private _name = "LaunchVerse";
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 771

low SEVERITY

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

Source File

- XLV.sol

Locations

```
770  uint256 public _maxWalletToken = _tTotal.mul(2).div(100);  
771  uint256 public _swapTokensAt = 100 * 10**5 * 10**9;  
772  
773  bool public tradeEnable = false;  
774  // auto liquidity
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 999

low SEVERITY

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

Source File

- XLV.sol

Locations

```
998
999  for (uint256 i = 0; i < _excluded.length; i++) {
1000    if (_excluded[i] == account) {
1001      _excluded[i] = _excluded[_excluded.length - 1];
1002      _tOwned[account] = 0;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1001

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1000  if (_excluded[i] == account) {  
1001  _excluded[i] = _excluded[_excluded.length - 1];  
1002  _tOwned[account] = 0;  
1003  _isExcluded[account] = false;  
1004  _excluded.pop();
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1130

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1129  uint256 tSupply = _tTotal;  
1130  for (uint256 i = 0; i < _excluded.length; i++) {  
1131    if (  
1132      _rOwned[_excluded[i]] > rSupply ||  
1133      _tOwned[_excluded[i]] > tSupply
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1211

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1210     require(  
1211         reciverTokenBalance + amount <= _maxWalletToken,  
1212         "Max Wallet Token Exceeded."  
1213     );  
1214 }
```

SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 1001

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1000  if (_excluded[i] == account) {  
1001  _excluded[i] = _excluded[_excluded.length - 1];  
1002  _tOwned[account] = 0;  
1003  _isExcluded[account] = false;  
1004  _excluded.pop();
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is `""^0.8.4""`. 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

- XLV.sol

Locations

```
5 // SPDX-License-Identifier: Unlicensed
6 pragma solidity ^0.8.4;
7
8 abstract contract Context {
9     function _msgSender() internal view virtual returns (address) {
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 776

low SEVERITY

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

Source File

- XLV.sol

Locations

```
775  bool public _swapAndLiquifyEnabled = true;
776  bool _inSwapAndLiquify;
777  IUniswapV2Router02 public _uniswapV2Router;
778  address public _uniswapV2Pair;
779  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1000

low SEVERITY

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

Source File

- XLV.sol

Locations

```
999   for (uint256 i = 0; i < _excluded.length; i++) {  
1000     if (_excluded[i] == account) {  
1001       _excluded[i] = _excluded[_excluded.length - 1];  
1002       _tOwned[account] = 0;  
1003       _isExcluded[account] = false;
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1001

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1000  if (_excluded[i] == account) {  
1001  _excluded[i] = _excluded[_excluded.length - 1];  
1002  _tOwned[account] = 0;  
1003  _isExcluded[account] = false;  
1004  _excluded.pop();
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1132

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1131   if (  
1132     _rOwned[_excluded[i]] > rSupply ||  
1133     _tOwned[_excluded[i]] > tSupply  
1134   ) return (_rTotal, _tTotal);  
1135   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1133

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1132  _rOwned[_excluded[i]] > rSupply ||  
1133  _tOwned[_excluded[i]] > tSupply  
1134  ) return (_rTotal, _tTotal);  
1135  rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1136  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1135

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1134     ) return (_rTotal, _tTotal);  
1135     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1136     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1137     }  
1138     if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1136

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1135   rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1136   tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1137   }  
1138   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);  
1139   return (rSupply, tSupply);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1301

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1300     address[] memory path = new address[](2);
1301     path[0] = address(this);
1302     path[1] = _uniswapV2Router.WETH();
1303
1304     _approve(address(this), address(_uniswapV2Router), tokenAmount);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1302

low SEVERITY

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

Source File

- XLV.sol

Locations

```
1301  path[0] = address(this);  
1302  path[1] = _uniswapV2Router.WETH();  
1303  
1304  _approve(address(this), address(_uniswapV2Router), tokenAmount);  
1305
```


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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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