Coinsult

Advanced Manual Smart Contract Audit

Project: Football Move

Website: https://footballmove.io/

Low-Risk	Medium-Risk	High-Risk
4 low-risk code issues found	1 medium-risk code issues found	0 high-risk code issues found

Contract Address

0x1F461B82234b70b44780bb21C8D97456161EBCD7

Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	25,000,000	50.0000%
2	0xc57235cf7cc2ecd029355d19b0f11a0f64efddce	12,500,355	25.0007%
3	0x407993575c91ce7643a4d4ccacc9a98c36ee1bbe	12,499,645	24.9993%

Source Code

Coinsult was comissioned by Football Move to perform an audit based on the following smart contract:

https://bscscan.com/address/0x1F461B82234b70b44780bb21C8D97456161EBCD7#code

Manual Code Review

In this audit report we will highlight all these issues:

🟢 Low-Risk

4 low-risk code
issues found

🟡 Medium-Risk

1 medium-risk code
issues found

🔴 High-Risk

0 high-risk code
issues found

The detailed report continues on the next page...

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Avoid relying on block.timestamp

block.timestamp can be manipulated by miners.

```
function _transfer(
    address sender,
    address receiver,
    uint256 amount
  ) internal virtual override {
    require(
      receiver != address(this),
      string("No transfers to contract allowed.")
    );

    require(!isBlacklist[sender], "User blacklisted");

    uint256 taxAmount = 0;

    if (liquidityPool[sender] == true) {
      //It's an LP Pair and it's a buy
      taxAmount = (amount * buyTax) / MAX_PERCENT;
    } else if (liquidityPool[receiver] == true) {
      //It's an LP Pair and it's a sell
      taxAmount = (amount * sellTax) / MAX_PERCENT;

      uint256 transactionTime = block.timestamp;
```

Recommendation

Do not use `block.timestamp`, now or `blockhash` as a source of randomness

Exploit scenario

```
contract Game {

    uint reward_determining_number;

    function guessing() external{
      reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls `guessing` and re-orders the block containing the transaction. As a result, Eve wins the game.

🟢 **Low-Risk:** Could be fixed, will not bring problems.

No zero address validation for some functions

Detect missing zero address validation.

```
function setMarketingPool(address _marketingPool) external onlyOwner {
  marketingPool = _marketingPool;
  emit ChangeMarketingPool(_marketingPool);
}
```

Recommendation

Check that the new address is not zero.

Exploit scenario

```
contract C {

  modifier onlyAdmin {
    if (msg.sender != owner) throw;
    _;
  }

  function updateOwner(address newOwner) onlyAdmin external {
    owner = newOwner;
  }
}
```

Bob calls `updateOwner` without specifying the `newOwner`, soBob loses ownership of the contract.

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Conformance to Solidity naming conventions

Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
function setBlacklist(address _wallet, bool _status) external onlyOwner {
  isBlacklist[_wallet] = _status;
  emit ChangeBlacklist(_wallet, _status);
}
```

Recommendation

Follow the Solidity naming convention.

Rule exceptions

- Allow constant variable name/symbol/decimals to be lowercase (ERC20).
- Allow _ at the beginning of the `mixed_case` match for private variables and unused parameters.

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Redundant Statements

Detect the usage of redundant statements that have no effect.

```
function _msgData() internal view returns (bytes memory) {
  this;
  return msg.data;
}
```

Recommendation

Remove redundant statements if they congest code but offer no value.

Exploit scenario

```
contract RedundantStatementsContract {

    constructor() public {
        uint; // Elementary Type Name
        bool; // Elementary Type Name
        RedundantStatementsContract; // Identifier
    }

    function test() public returns (uint) {
        uint; // Elementary Type Name
        assert; // Identifier
        test; // Identifier
        return 777;
    }
}
```

Each commented line references types/identifiers, but performs no action with them, so no code will be generated for such statements and they can be removed.

🟡 **Medium-Risk:** Should be fixed, could bring problems.

double variable type specification

```
require(
  receiver != address(this),
  string("No transfers to contract allowed.")
);
```

Recommendation

Leave out the string() type specification

Owner privileges

- 🟢 Owner cannot set fees higher than 25%
- 🟢 Owner cannot pause trading
- 🟢 Owner cannot change max transaction amount
- 🟡 Owner can exclude from fees
- 🔴 Owner can blacklist addresses
- ⚠️ Owner can set trade cooldown

Extra notes by the team

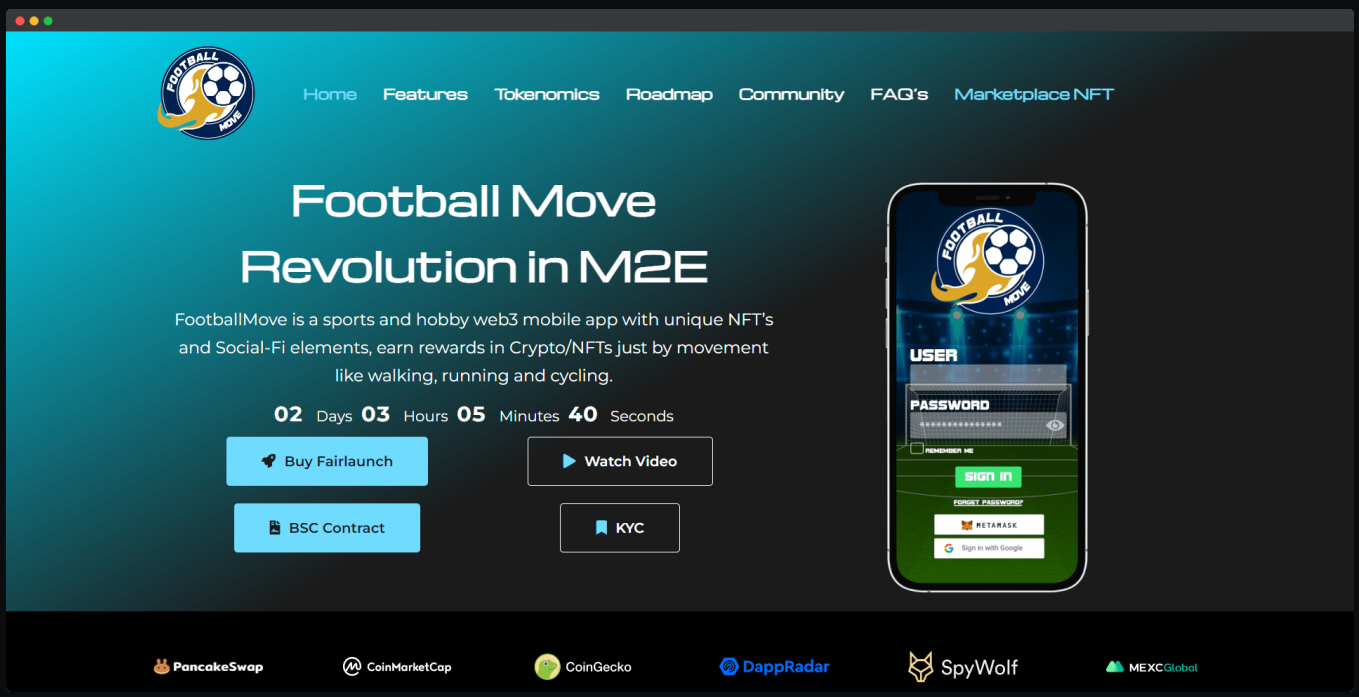
No notes

Contract Snapshot

```
contract SuperToken is BEP20Detailed, BEP20 {

uint256 constant private MAX_PERCENT = 100;

mapping(address =&gt; bool) private isBlacklist;
mapping(address =&gt; bool) private liquidityPool;
mapping(address =&gt; bool) private whitelistTax;
mapping(address =&gt; uint256) private lastTrade;

uint8 private buyTax;
uint8 private sellTax;
uint8 private tradeCooldown;
uint8 private transferTax;
//uint256 private taxAmount;
```

Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

Project Overview

Not KYC verified by Coinsult

Football Move

Audited by Coinsult.net

Date: 4 June 2022

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