Coinsult

Advanced Manual Smart Contract Audit

Project: Game Addict

Website: https://gameaddict.finance/

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

Contract Address

0xC7dDE0701DD49be8F5792280DdfCabF64f9dEC14

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	0xddd7a4ab2a5cc6af30b42ed1911467faca1beb6d	59,290,000	84.7000%
2	0x6f2aeebf0eb002584c1658b719d4541d8d409e66	10,710,000	15.3000%

Source Code

Coinsult was comissioned by Game Addict to perform an audit based on the following smart contract:

https://bscscan.com/address/0xC7dDE0701DD49be8F5792280DdfCabF64f9dEC14#code

PinkSale generated babytoken

Manual Code Review

In this audit report we will highlight all these issues:

🟢 Low-Risk

4 low-risk code
issues found

🟡 Medium-Risk

0 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.

```
secondsUntilAutoClaimAvailable = nextClaimTime &gt; block.timestamp
? nextClaimTime.sub(block.timestamp)
: 0;
```

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.

Too many digits

Literals with many digits are difficult to read and review.

```
require(
    newValue &gt;= 200000 &amp;&amp; newValue &lt;= 500000,
    &quot;BABYTOKEN: gasForProcessing must be between 200,000 and 500,000&quot;
);
```

Recommendation

Use: Ether suffix, Time suffix, or The scientific notation

Exploit scenario

```
contract MyContract{
    uint 1_ether = 10000000000000000000;
}
```

While `1_ether` looks like `1 ether`, it is `10 ether`. As a result, it's likely to be used incorrectly.

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

No zero address validation for some functions

Detect missing zero address validation.

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

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.

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setTokenRewardsFee(uint256 value) external onlyOwner {
    tokenRewardsFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees &amp;lt;= 25, &amp;quot;Total fee is over 25%&amp;quot;);
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees &amp;lt;= 25, &amp;quot;Total fee is over 25%&amp;quot;);
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees &amp;lt;= 25, &amp;quot;Total fee is over 25%&amp;quot;);
}
```

Recommendation

Emit an event for critical parameter changes.

Exploit scenario

```
contract C {

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

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

`updateOwner()` has no event, so it is difficult to track off-chain changes in the buy price.

Owner privileges

- Owner cannot set fees higher than 25%
- Owner cannot pause trading
- Owner cannot change max transaction amount
- Owner can exclude from fees

Extra notes by the team

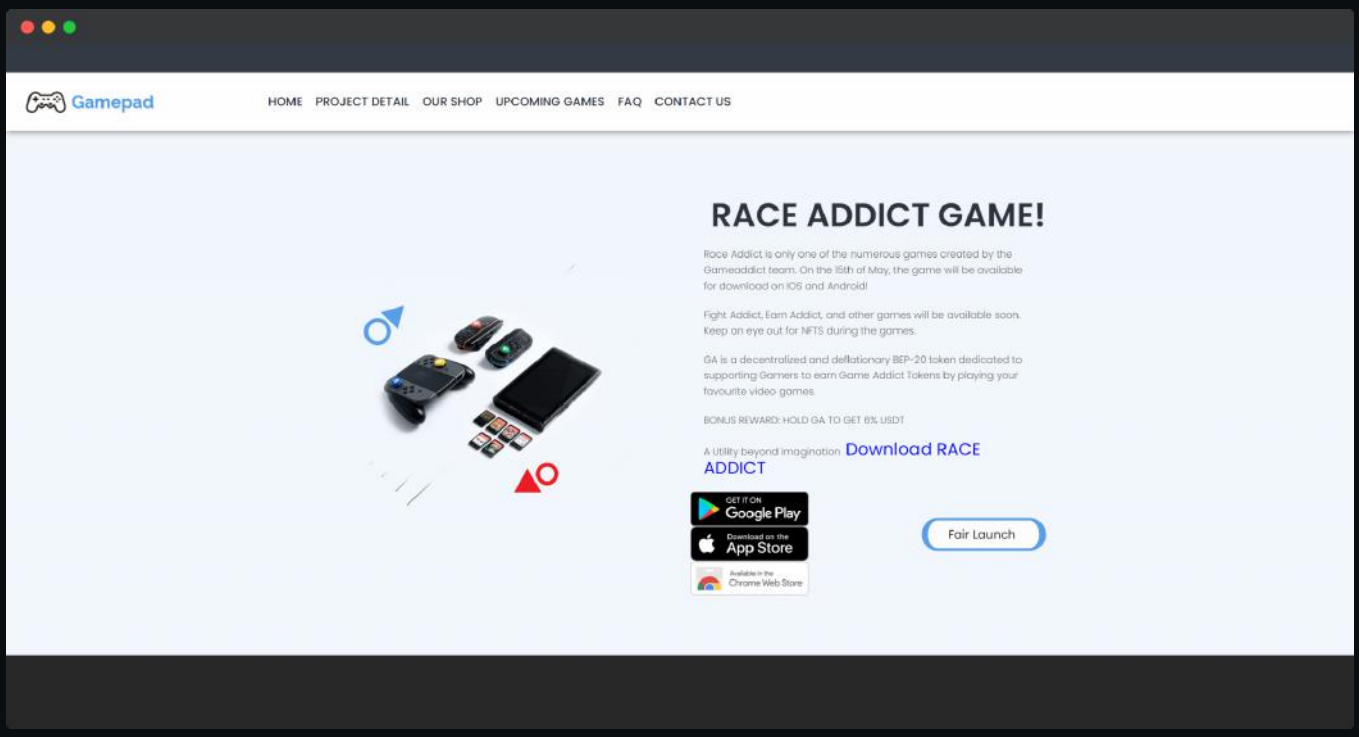
No notes

Contract Snapshot

```
contract BABYTOKEN is ERC20, Ownable, BaseToken {
using SafeMath for uint256;

uint256 public constant VERSION = 1;

IUniswapV2Router02 public uniswapV2Router;
address public uniswapV2Pair;

bool private swapping;

BABYTOKENDividendTracker public dividendTracker;

address public rewardToken;

uint256 public swapTokensAtAmount;

uint256 public tokenRewardsFee;
uint256 public liquidityFee;
uint256 public marketingFee;
uint256 public totalFees;

address public _marketingWalletAddress;

uint256 public gasForProcessing;

// exlcude from fees and max transaction amount
mapping(address =&gt; bool) private _isExcludedFromFees;

// store addresses that a automatic market maker pairs. Any transfer *to* these addresses
// could be subject to a maximum transfer amount
mapping(address =&gt; bool) public automatedMarketMakerPairs;

event UpdateDividendTracker(
    address indexed newAddress,
    address indexed oldAddress
);
```

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