Coinsult

Advanced Manual Smart Contract Audit

Project: Apollo Ventures (LaunchpadFactory.sol)
Website: https://a11.ventures

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

Contract address
(LaunchpadFactory.sol) Not deployed yet

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.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

Tokenomics

Not deployed yet

Source code

Coinsult was commissioned by Apollo to perform an audit based on the following smart contract:

https://github.com/infocodiste/apolloVentures/blob/master/contracts/launchpad/LaunchpadFactory.sol

Note: This project uses openzeppelin imports. While we do check the full contract for vulnerabilities at the time of the audit, we can not ensure the correctness of these imported modules.

Manual Code Review

🟢 Low-risk

3 low-risk code issues found.
Could be fixed, will not bring problems.

- Consider using .div() and .mul() for dividing and multiplications

```
    function requiredTokens(uint256 presaleRate, uint256 hardcap,
uint256 liquidityPercent, uint256 listingRate)
    public pure returns (uint256 tokens) {
        uint256 tokensToBuyers = (hardcap * presaleRate) / 1 ether;
        uint256 tokensToLiquidity = (hardcap * liquidityPercent*
listingRate) / 10000 ether;
        tokens = tokensToBuyers + tokensToLiquidity;
    }
```

- Owner can pause and unpause the contract

```
    function pause() external onlyOwner {
        _pause();
    }

    function unpause() external onlyOwner {
        _unpause();
    }
```

- Combine code to create a shorter contract

  Additional information: `tokensToBuyers and tokensToLiquidity` are never used, only once to create a new variable. You could create only `tokens`

```
    function requiredTokens(uint256 presaleRate, uint256 hardcap,
uint256 liquidityPercent, uint256 listingRate)
    public pure returns (uint256 tokens) {
        uint256 tokensToBuyers = (hardcap * presaleRate) / 1 ether;
        uint256 tokensToLiquidity = (hardcap * liquidityPercent*
listingRate) / 10000 ether;
        tokens = tokensToBuyers + tokensToLiquidity;
    }
```

🟡 Medium-risk

0 medium-risk code issues found.
Should be fixed, could bring problems.

🔴 High-risk

0 high-risk code issues found
Must be fixed, and will bring problems.

Extra notes by the team

Note: This project uses openzeppelin imports. While we do check the full contract for vulnerabilities at the time of the audit, we can not ensure the correctness of these imported modules.

🟡 Contract is called `contract LaunchpadFactoryClone` instead of LaunchpadFactory (might be intentional)

🟡 Dev notes can be deleted upon deployment

🟡 Owner can change `setFeeAddress`

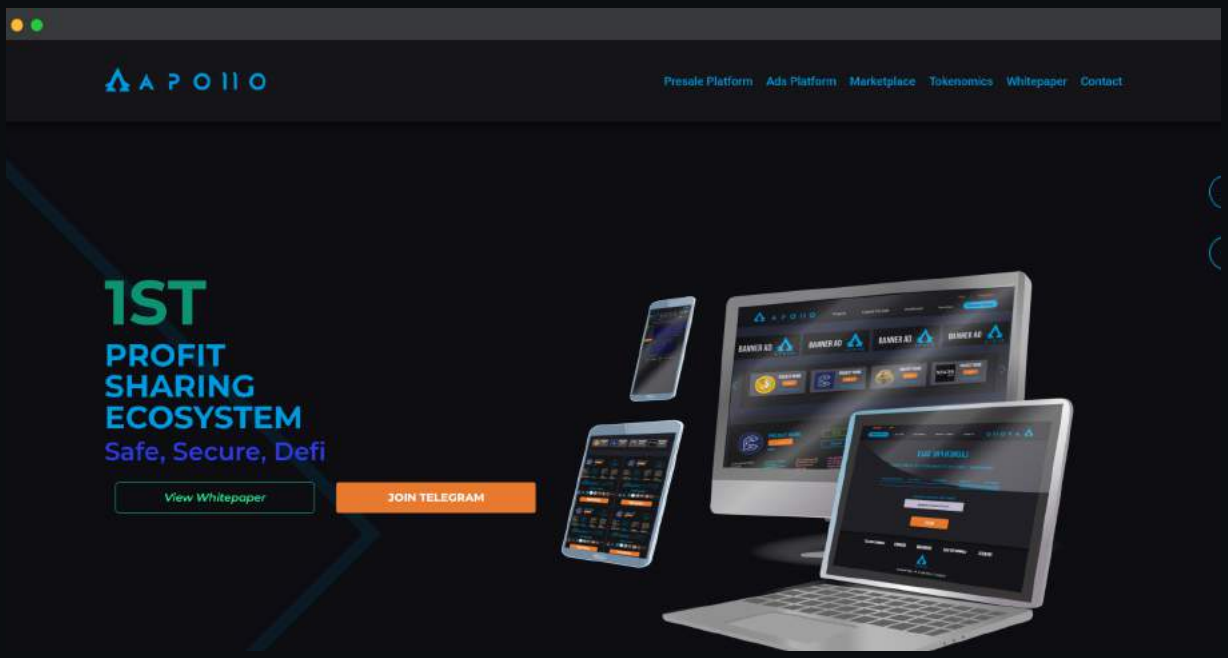
🟡 Owner can change `setLiquidityPercentLimit`

🔴 Owner can pause and unpause the contract

Contract Snapshot

```
contract LaunchpadFactoryClone is ReentrancyGuard, Ownable, Pausable {
    using SafeERC20 for IERC20;

    address public router;
    address immutable tokenImplementation;
    address public stakingContract;
    address public feeAddress;

    uint256 public liquidityPercentLimit = 5000;
    uint256 public createFee;

    mapping (address => address) public CloneAddressOf;

    event CreateLaunch(address indexed token,
LaunchpadPresale.Parameters par, LaunchpadPresale.WhitelistParameters
wpar,
        LaunchpadPresale.VestingParameters vpar, uint256 tokens,
uint256 raisedFee, uint256 influencerFee);
    constructor(address _router, address _feeAddress, uint256
_createFee) {
        router = _router;
        feeAddress = _feeAddress;
        tokenImplementation = address(new LaunchpadPresale());
        createFee = _createFee;
    }

    /**
     * @dev Sets staking contract address
     */
    function setStakingContract(address _stakingContract) external
onlyOwner {
        stakingContract = _stakingContract;
    }

    /**
     * @dev Sets fee collector address
     */
    function setFeeAddress(address _feeAddress) external onlyOwner {
        feeAddress = _feeAddress;
    }
```

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
- Contains no jQuery errors
- SSL Secured
- No major spelling errors

Loading speed: 86%

Rug-pull Review

Based on the available information analyzed by us, we come to the following conclusions:

🟢 Locked Liquidity - Not applicable

🟢 Large unlocked wallets - Not applicable

🟢 Doxxed Team

Honeypot Review

Based on the available information analyzed by us, we come to the following conclusions:

🟢 Ability to sell - Not applicable

🔴 Owner is able to pause the contract

🟢 Router not hard coded in the contract - Not applicable

Note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project owner.