AUDIT REPORT

DATE APRIL 1ST

FOR

THEFINANCELABS.FINANCE

PROJECT

Solid Group Auditing Service
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Overview

Network: on-chain Binance Smart Chain
Website: http://thelab.finance
Twitter Group: https://twitter.com/thelabfinance
Telegram Group: https://t.me/thelabfinance

Description

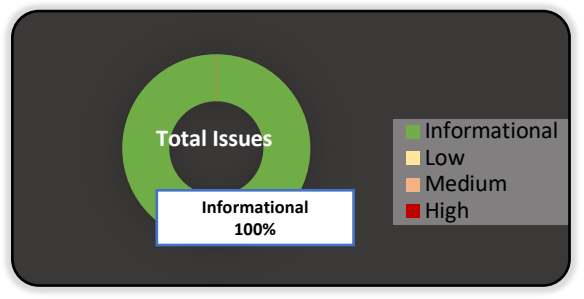
BSC Farming Protocol with Governance & Profit-Generating NFT's. A community-centered BSC farming solution with NTF's which will work as a Revenue Generator and as a Governance Model.

Files In Scope

Contract Name	Address	MD5
LaboToken.sol	0x171401a3d18B21BFa3f9bF4F9637F3691158365A	7AB826726F27C6C658D57C6DCB52D636
MasterChefV2.sol	0x30f4cb706e65ABB3cbC3fFC2805E8Ff50eA8fbC8	9E491175F2716D76E25C71D2A4F4FF59
Timelock.sol	0x0A974345327c8A7d7FC2e5eD6e2DE6343500660E	05B3D7599449B2A419408252400995DF

Vulnerability Summary

Informational severity Issues	3
Low severity issues	0
Medium severity issues	0
High severity issues	0



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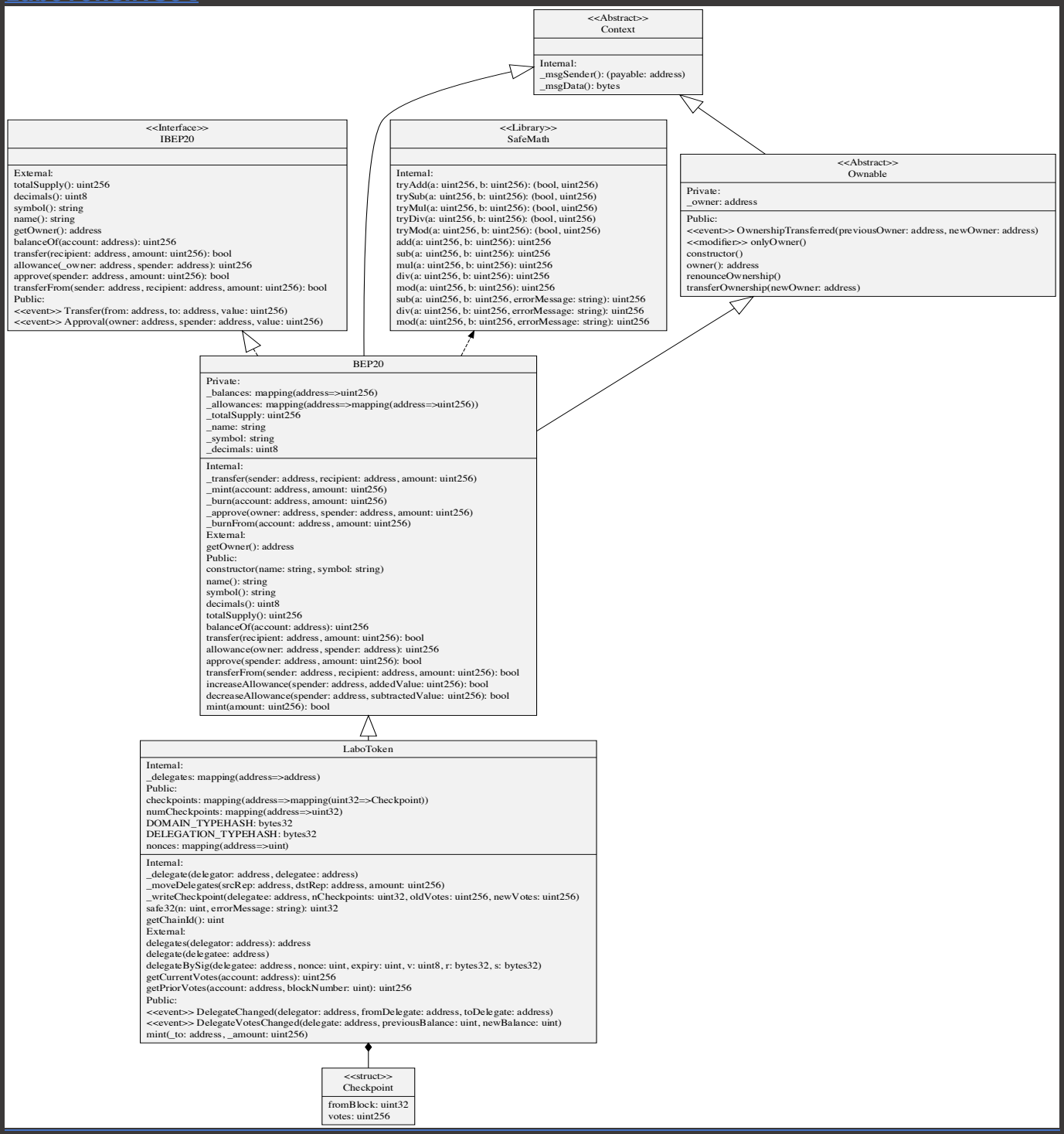
UML

LaboToken.sol



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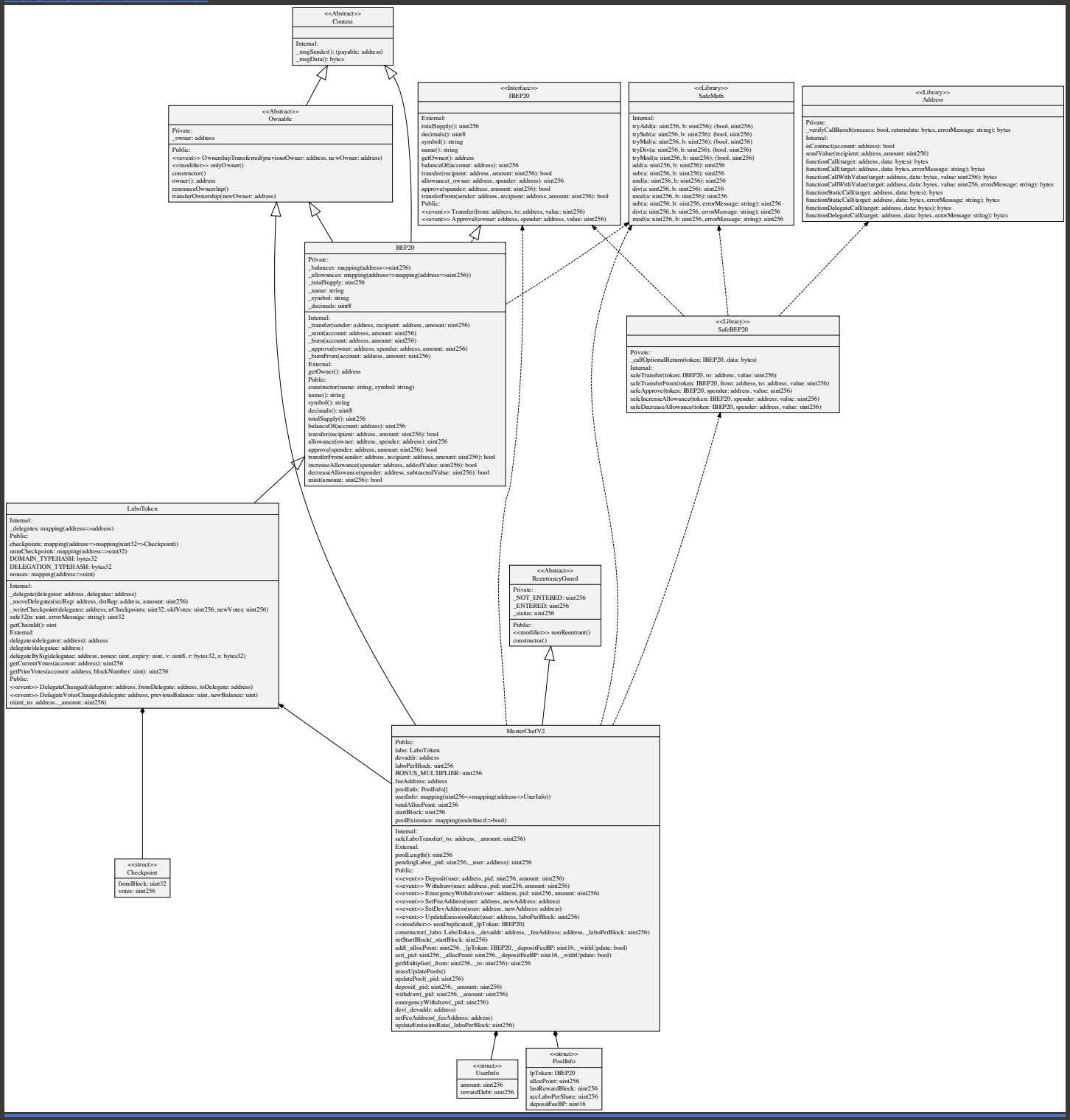
MasterChefV2.sol



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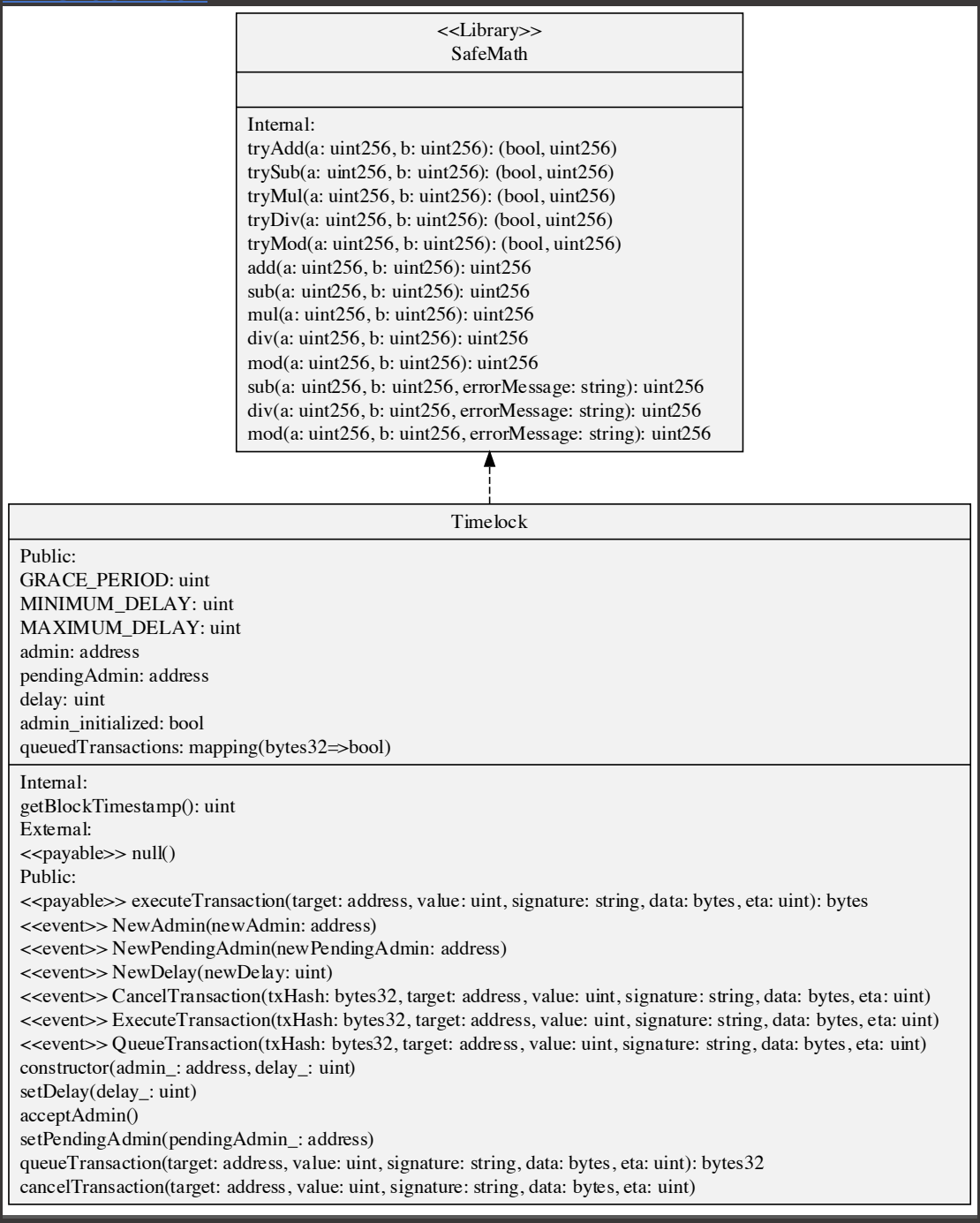
TimeLock.sol



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BEP-20's Conformance

This test checks for BEP-20's conformance.

- All the functions are present
- All the events are present
- Functions return the correct type
- Functions that must be view are view
- Events' parameters are correctly indexed
- The functions emit the events
- Derived contracts do not break the conformance

Function	present	type	Correct Return value	events	
totalSupply	✅	✅ view	✅		
balanceOf(address)	✅	✅ view	✅		
transfer(address,uint256)	✅	✅ external	✅	✅ Transfer	
transferFrom(address, address, uint256)	✅	✅ external	✅	✅ Transfer	
approve(address,uint256)	✅	✅ external	✅	✅ Approval	
allowance(address, address)	✅	✅ view	✅		
name	✅	✅ view	✅		
symbol	✅	✅ view	✅		

Check Events:

✅ Transfer

✅ Approve

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Findings

LaboToken.sol

Issue #1:

Type	Severity	Location
Gas Optimization	● Informational	LaboToken.sol

Description:

The public **setStartBlock**, **add**, **set**, **deposit**, **withdraw**, **emergencyWithdraw**, **dev**, **setFeeAddress** and **updateEmissionRate** functions should be declared as external.

Recommendation:

These functions are only called from outside of the contract, consider using the external attribute instead of public to save gas.

Summary

● Informational severity Issues	1
● Low severity issues	0
● Medium severity issues	0
● High severity issues	0

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MasterChefV2.sol

Issue #1:

Type	Severity	Location
Gas Optimization	● Informational	MasterChefV2.sol

Description:

The public **setStartBlock**, **add**, **set**, **deposit**, **withdraw**, **emergencyWithdraw**, **dev**, **setFeeAddress** and **updateEmissionRate** functions should be declared as external.

Recommendation:

These functions are only called from outside of the contract, consider using the external attribute instead of public to save gas.

Issue #2:

Type	Severity	Location
Best Practice	● Informational	MasterChefV2.sol

Description:

Missing event in setStartingBlock function.

Recommendation:

Consider adding event when setStartingBlock is execute.

```
function setStartBlock(uint256 _startBlock) public onlyOwner {
    require(startBlock == 0, "already started");
    require(_startBlock > block.number + 200, "start block has to be further in the future");
    startBlock = _startBlock;
    emit SetStartingBlock(startBlock);
}
```

Summary

● Informational severity Issues	2
● Low severity issues	0
● Medium severity issues	0
● High severity issues	0

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