

# SKELETON ECOSYSTEM

SMART CONTRACT AUDIT



**Power to the People  
(\$PTTP)**

**BEP20**

0x4545D603CE79F4Db3485989aa7413eA85D48



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## Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

**Limited Scope:** The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safety and can not detect common scam methods like farming and developer sell-out.

**No Guarantee of Security:** While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

**Continued Development:** Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

**Third-party Code:** If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

**Non-Exhaustive Testing:** The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

**Risk Evaluation:** The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

**Not Financial Advice:** This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.

## Overview

Contract Name	PowerToThePeople
Ticker/Symbol	PTTP
Blockchain	Binance Smart Chain BEP20
Contract Address	0x4545D603CE79F4Db3485989aa7413eA85D48D10b
Creator Address	0xCEa0C3E9d4e055A04aa53c0032D90155Baa43cC9
Current Owner Address	0xCEa0C3E9d4e055A04aa53c0032D90155Baa43cC9
Contract Explorer	<a href="https://bscscan.com/token/0x4545D603CE79F4Db3485989aa7413eA85D48D10b#code">https://bscscan.com/token/0x4545D603CE79F4Db3485989aa7413eA85D48D10b#code</a>
Compiler Version	v0.8.17+commit.8df45f5f
License	MIT
Optimisation	No with 200 Runs
Total Supply	100,000,000 PTTP
Decimals	18

## Creation/Audit

Contract Deployed	10.04.2024
Audit Created	18.04.2024
Audit Update	V 1.0

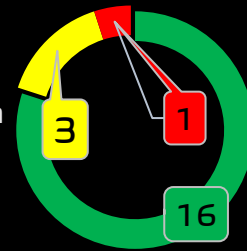
## Verified Socials

Website	<a href="https://powertothepeoplegrant.com/">https://powertothepeoplegrant.com/</a>
Telegram	<a href="https://t.me/powertothepeopleport">https://t.me/powertothepeopleport</a>
Twitter (X)	<a href="https://twitter.com/pttptoken">https://twitter.com/pttptoken</a>

## Contract Function Analysis

 Pass
  Attention Item
  Risky Item

■ Pass  
 ■ Attention  
 ■ Risk



Contract Verified		The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0xCEa0C3E9d4e055A04aa53c0032D90155Baa43cC9
Buy Tax	8 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	10 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse		Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liquidity Status		Liquidity status on 18.04.2024 Unlocked before Launch
Trading Disable Functions		Trading suspendable function found. If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function	 max 10% sell	Fee Setting function found. The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract		Not a Proxy contract
Mint Function		No Mint Function detected Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.

Balance Modifier Function		<p>No Balance Modifier function found.</p> <p>If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.</p>
Blacklist Function		<p>No Blacklist Setting function found.</p> <p>If there is a blacklist, some addresses may not be able to trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.</p>
Whitelist Function		<p>Whitelist Setting function found</p> <p>If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)</p>
Hidden Owner Analysis		<p>No Hidden or multi owner with authorisation</p> <p>For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.</p>
Retrieve Ownership Function		<p>No Functions found which can retrieve ownership of the contract.</p> <p>If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.</p>
Self Destruct Function		<p>No Self Destruct function found.</p> <p>If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.</p>
Specific Tax Changing Function		<p>No Specific Tax Changing Functions found.</p> <p>If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!</p>
Trading Cooldown Function		<p>No Trading Cooldown Function found. If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.</p>
Max Transaction and Holding Modify Function	 min 1%	<p>Max Transaction and Holding Modify function found.</p> <p>If there is a function for this, the maximum trading amount or maximum position can be modified</p>
Transaction Limiting Function		<p>No Transaction Limiter Function Found.</p> <p>The number of overall token transactions may be limited (honeypot risk)</p>

## Details of Risk - Attention Items

### ⚠ Set Fee (Max 8% buy and 10% Sell)

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).

```
fttrace | funcSig
function updateFees(uint256 marketingBuy!, uint256 marketingSell!,
    uint256 liquidityBuy!, uint256 liquiditySell!,
    uint256 teamBuy!, uint256 teamSell!) public onlyOwner {

    buyMarketingFees = marketingBuy!;
    sellMarketingFees = marketingSell!;
    sellLiquidityFee = liquiditySell!;
    buyLiquidityFee = liquidityBuy!;
    buyTeamFee = teamBuy!;
    sellTeamFee = teamSell!;

    totalSellFees = sellMarketingFees.add(sellLiquidityFee).add(sellTeamFee);
    totalBuyFees = buyMarketingFees.add(buyLiquidityFee).add(buyTeamFee);

    require(totalSellFees <= 10 && totalBuyFees <= 8, "total fees cannot be higher than 8% buys 10% sells");

    emit UpdateFees(sellMarketingFees, sellLiquidityFee, buyMarketingFees,
        buyLiquidityFee, sellTeamFee, buyTeamFee);
}
```

### ⚠ Whitelist

If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)

```
fttrace | funcSig
function setExcludeFees(address account!, bool excluded!) public onlyOwner {
    isExcludedFromFees[account!] = excluded!;
    emit ExcludeFromFees(account!, excluded!);
}
```

## ⚠ Max Transaction and Holding Modify function

(Min 1% = can not turn to honeypot through this function)

If there is a function for this, the maximum trading amount or maximum position can be modified.

```
// set max tx, can not be lower than 0.1% of supply
fttrace | funcSig
function setmaxTX(uint256 value!) external onlyOwner {
    value! = value! * (10**18);
    require(value! >= _totalSupply / 100, "max tx cannot be set to less than 1%");
    maxTX = value!;
}

// set max wallet, can not be lower than 0.1% of supply
fttrace | funcSig
function setmaxWallet(uint256 value!) external onlyOwner {
    value! = value! * (10**18);
    require(value! >= _totalSupply / 100, "max wallet cannot be set to less than 1%");
    maxWallet = value!;
}
```

## ⚠ Trading Disable Function

If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk).  
If contract is renounced this function can't be used

```
985         fttrace | funcSig
986         function enableTrading() external onlyOwner {
987             require(!tradingEnabled);
988             tradingEnabled = true;
989             emit TradingEnabled();
990         }
```



## Contract Security

Total Findings: 6



■ **High Severity Issues:** High possibility to cause problems, need to be resolved.

■ **Medium Severity Issue:** Will likely cause problems, recommended to resolve.

■ **Low Severity Issues:** Won't cause problems, but for improvement purposes could be adjusted.

■ **Informational Severity Issues:** Not harmful in any way, information for the developer team.

## Contract Security


### List of Found Issues

 **High severity Issues: (0)**

 **Medium severity issues: (0)**

 **Low severity issues: (4)**

- Missing Events
- Long number literals
- Outdated compiler Version
- Approve of Front running Attack (Sandwich bots)

 **Informational severity issues: (2)**

- Public Functions Should be Declared External
- State Variables Should be Declared Constant

## Contract Weakness Classification

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE

ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	low	low	low
SWC-103	Floating Pragma	Passed	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed	Passed	Passed

SWC-121	Missing Protection against Signature Replay Attacks	Passed	Passed	Passed
SWC-122	Lack of Proper Signature Verification	Passed	Passed	Passed
SWC-123	Requirement Violation	Passed	Passed	Passed
SWC-124	Write to Arbitrary Storage Location	Passed	Passed	Passed
SWC-125	Incorrect Inheritance Order	Passed	Passed	Passed
SWC-126	Insufficient Gas Griefing	Passed	Passed	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed	Passed	Passed
SWC-128	DoS With Block Gas Limit	Passed	Passed	Passed
SWC-129	Typographical Error	low	Passed	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed	Passed	Passed
SWC-131	Presence of unused variables	Passed	Passed	Passed
SWC-132	Unexpected Ether balance	Passed	Passed	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed	Passed	Passed
SWC-134	Message call with hardcoded gas amount	Passed	Passed	Passed
SWC-135	Code With No Effects	Passed	Passed	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed	Passed	Passed

## Detected High and Medium Severity Vulnerability Description.

### ⚠ Outdated Compiler Version (1 Item)

Item: 1	Location:	Line 11	Severity:	■ Low
---------	-----------	---------	-----------	-------

<b>Function</b>	Using an outdated compiler version can be problematic especially if there are publicly disclosed bugs and issues that affect the current compiler version. The following outdated versions were detected: /pttp.sol - 0.8.17
<b>Remedation</b>	It is recommended to use a recent version of the Solidity compiler that should not be the most recent version, and it should not be an outdated version as well. Using very old versions of Solidity prevents the benefits of bug fixes and newer security checks. Consider using the solidity version v0.8.24, which patches most solidity vulnerabilities.

## ⚠️ Approve of Front running Attack (2 Item)

Item: 1	Location:	Line 303-307	Severity: <span style="color: green;">■</span> Low
---------	-----------	--------------	--

<b>Function</b>	<p>The <b>approve()</b> method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account. This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.</p> <p>Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function.</p> <p>The function approve can be front-run by abusing the <code>_approve</code> function.</p>
<b>Remedation</b>	<ol style="list-style-type: none"> <li>1. Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent front-runners from drastically increasing the gas fees to prioritize their transactions.</li> <li>2. Use transaction taxes to prevent against front-run attack</li> </ol>

```

303     function approve(address spender, uint256 amount) public virtual override returns (bool) {
304         address owner = _msgSender();
305         _approve(owner, spender, amount);
306         return true;
307     }
308
309

```

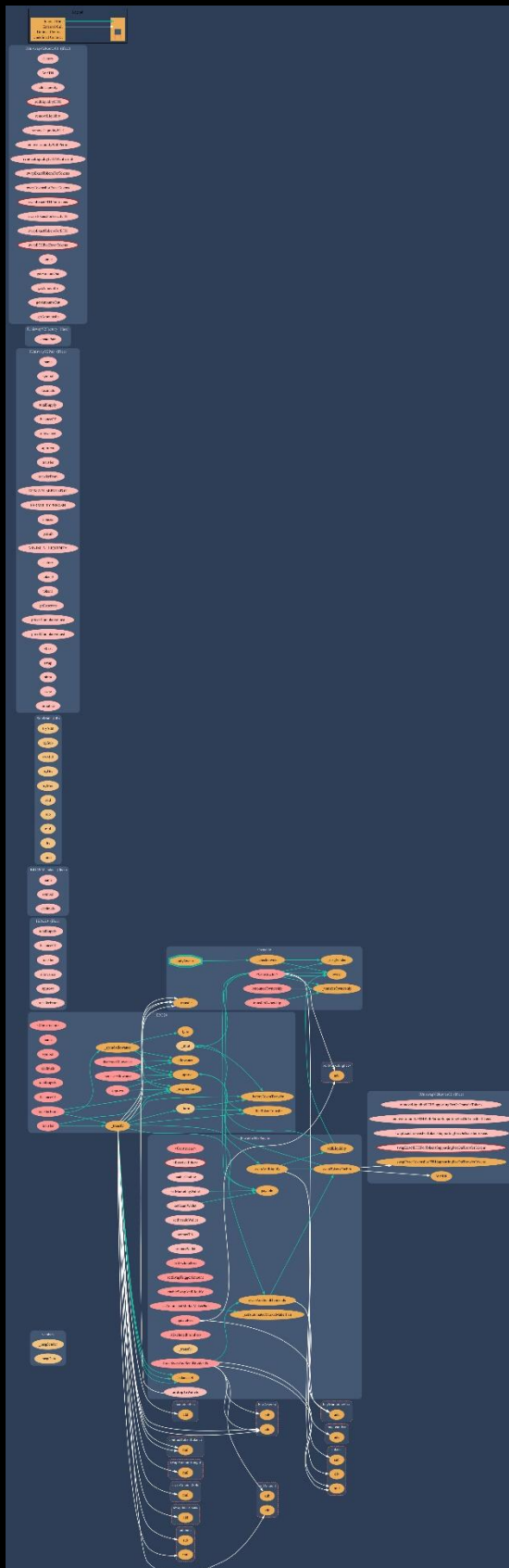
Item: 2	Location:	Line 497-509	Severity:	Low
---------	-----------	--------------	-----------	-----

<b>Function</b>	<p>The <code>_spendAllowance()</code> method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account.</p> <p>This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.</p> <p>Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function.</p> <p>The function approve can be front-run by abusing the <code>_approve</code> function.</p>
<b>Remediation</b>	<ol style="list-style-type: none"> <li>Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent front-runners from drastically increasing the gas fees to prioritize their transactions.</li> <li>Use transaction taxes to prevent against front-run attack</li> </ol>

```

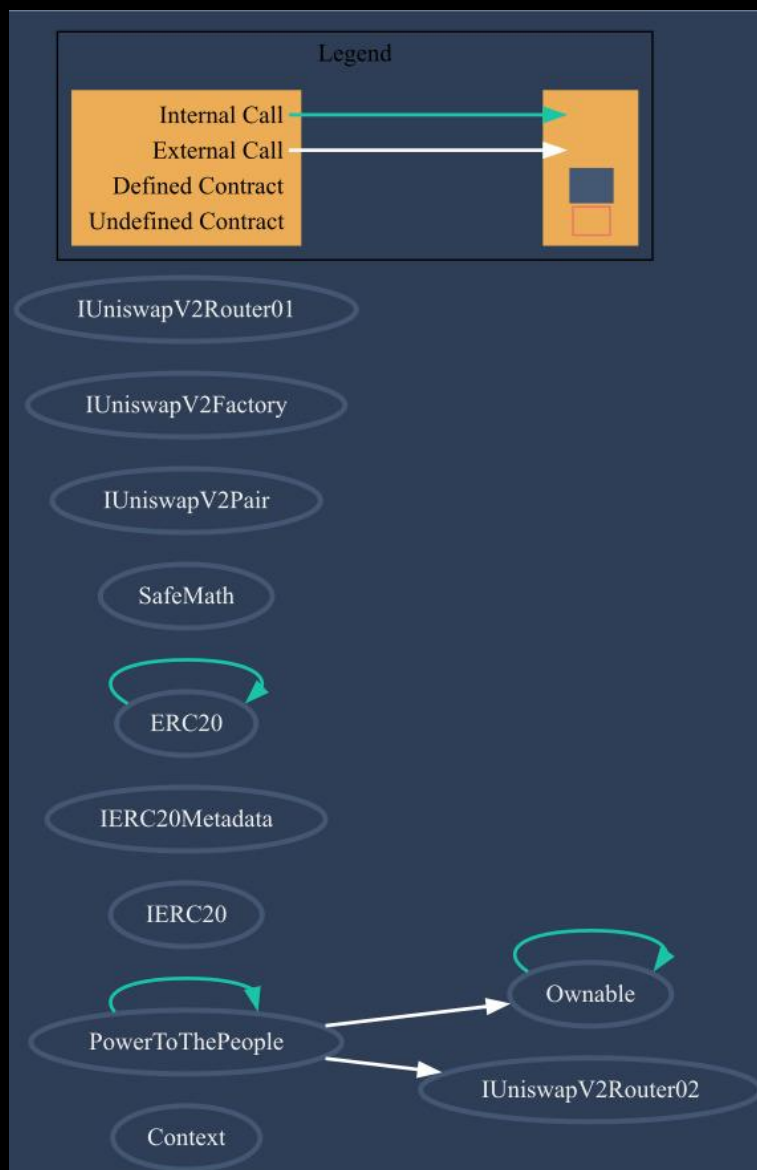
497  ftrace | funcSig
498  function _spendAllowance(
499      address owner!,
500      address spender!,
501      uint256 amount!
502  ) internal virtual {
503      uint256 currentAllowance = allowance(owner!, spender!);
504      if (currentAllowance != type(uint256).max) {
505          require(currentAllowance >= amount!, "ERC20: insufficient allowance");
506          unchecked {
507              _approve(owner!, spender!, currentAllowance - amount!);
508          }
509      }
510  }
  
```

## Contract Flow Graph

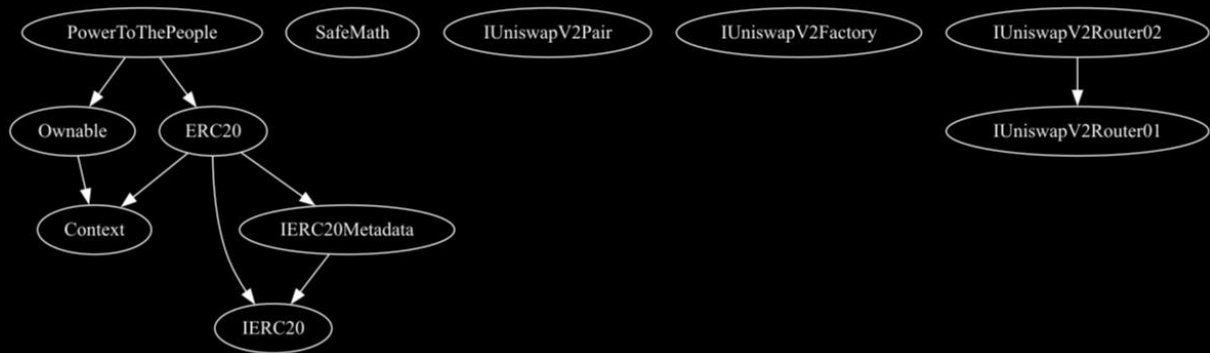



































## Contract Interaction Graph

































## Inheritance Graph



































































































## Contract Functions














Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	_checkOwner	Internal 		
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
IERC20Metadata	Interface	IERC20		
L	name	External 		NO 

Contract	Type	Bases		
L	symbol	External ⓘ		NO ⓘ
L	decimals	External ⓘ		NO ⓘ
ERC20	Implementation	Context, IERC20, IERC20Metadata		
L		Public ⓘ	⊗	NO ⓘ
L	name	Public ⓘ		NO ⓘ
L	symbol	Public ⓘ		NO ⓘ
L	decimals	Public ⓘ		NO ⓘ
L	totalSupply	Public ⓘ		NO ⓘ
L	balanceOf	Public ⓘ		NO ⓘ
L	transfer	Public ⓘ	⊗	NO ⓘ
L	allowance	Public ⓘ		NO ⓘ
L	approve	Public ⓘ	⊗	NO ⓘ
L	transferFrom	Public ⓘ	⊗	NO ⓘ
L	increaseAllowance	Public ⓘ	⊗	NO ⓘ
L	decreaseAllowance	Public ⓘ	⊗	NO ⓘ
L	_transfer	Internal 🔒	⊗	
L	_mint	Internal 🔒	⊗	
L	_burn	Internal 🔒	⊗	
L	_approve	Internal 🔒	⊗	
L	_spendAllowance	Internal 🔒	⊗	
L	_beforeTokenTransfer	Internal 🔒	⊗	










Contract	Type	Bases		
L	_afterTokenTransfer	Internal 		
<b>SafeMath</b>	Library			
L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
<b>IUniswapV2Pair</b>	Interface			
L	name	External 		NO 
L	symbol	External 		NO 
L	decimals	External 		NO 
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 

Contract	Type	Bases		
L	transfer	External 		NO 
L	transferFrom	External 		NO 
L	DOMAIN_SEPARATOR	External 		NO 
L	PERMIT_TYPEHASH	External 		NO 
L	nonces	External 		NO 
L	permit	External 		NO 
L	MINIMUM_LIQUIDITY	External 		NO 
L	factory	External 		NO 
L	token0	External 		NO 
L	token1	External 		NO 
L	getReserves	External 		NO 
L	price0CumulativeLast	External 		NO 
L	price1CumulativeLast	External 		NO 
L	kLast	External 		NO 
L	swap	External 		NO 
L	skim	External 		NO 
L	sync	External 		NO 
L	initialize	External 		NO 
IUniswapV2Factory	Interface			
	createPair	External 		NO 

Contract	Type	Bases		
IUniswapV2Router01	Interface			
L	factory	External 		NO 
L	WETH	External 		NO 
L	addLiquidity	External 		NO 
L	addLiquidityETH	External 		NO 
L	removeLiquidity	External 		NO 
L	removeLiquidityETH	External 		NO 
L	removeLiquidityWithPermit	External 		NO 
L	removeLiquidityETHWithPermit	External 		NO 
L	swapExactTokensForTokens	External 		NO 
L	swapTokensForExactTokens	External 		NO 
L	swapExactETHForTokens	External 		NO 
L	swapTokensForExactETH	External 		NO 
L	swapExactTokensForETH	External 		NO 
L	swapETHForExactTokens	External 		NO 
L	quote	External 		NO 
L	getAmountOut	External 		NO 
L	getAmountIn	External 		NO 
L	getAmountsOut	External 		NO 
L	getAmountsIn	External 		NO 

Contract	Type	Bases		
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
PowerToThePeople	Implementation	ERC20, Ownable		
L		Public !		ERC20
L		External !		NO !
L	enableTrading	External !		onlyOwner
L	setMarketingWallet	External !		onlyOwner
L	setTeamWallet	External !		onlyOwner
L	setPresaleWallet	External !		onlyOwner
L	setMaxTX	External !		onlyOwner
L	setMaxWallet	External !		onlyOwner



Contract	Type	Bases		
L	setExcludeFees	Public !		onlyOwner
L	setSwapTrigger Amount	Public !		onlyOwner
L	enableSwapAnd Liquify	Public !		onlyOwner
L	setAutomatedMarketMakerPair	Public !		onlyOwner
L	_setAutomatedMarketMakerPair	Private 		
L	updateFees	Public !		onlyOwner
L	isExcludedFrom Fees	Public !		NO!
L	_transfer	Internal 		
L	swapAndLiquify	Private 		
L	swapTokensFor Eth	Private 		
L	addLiquidity	Private 		
L	forceSwapAndSendDividends	Public !		onlyOwner
L	swapAndSendDividends	Private 		
L	airdropToWallets	External !		onlyOwner



Function  
can modify  
state



Function  
is payable

## Audit Scope

### Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnerabilities in the code. Findings getting reported and improvements getting suggested.

### Automatic and Manual Review

We are using automated tools to scan functions and weaknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

### Tools we use:

Visual Studio Code

CWE

SWC

Solidity Scan

SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

## Skeleton Ecosystem

<https://skeletonecosystem.com>

<https://github.com/SkeletonEcosystem/Audits>

