PandaPoints

A new standard for investment and management of international companies

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Abstract: The PandaPoints Token aims to transform the global business landscape through the pioneering application of smart contracts. This whitepaper explores how the token will establish itself as a fully decentralized international company, led by CEO and developer, Felipe Pantaleão, with a focus on technological and business expansion. The PandaPoints Token marks a new era in business approach, utilizing smart contracts to create a borderless international company. Felipe Pantaleão, CEO and developer, leads this ambitious venture, committed to expanding both technologically and in business.

Executive Summary

Initial Features on Binance Smart Chain

The token will be launched on the Binance Smart Chain with an initial supply of 1,000,000. The token's smart contract will have fundamental features, including:

- Direct buying and selling with BNB.
- Buying and selling the token with other currencies, with on-chain balance recording.
- Referral System to promote a growth ecosystem.
- Staking with a yield of 1% in 30 days, encouraging active community participation.
- Investment in the liquidity pool with a reward of 1% from purchases and sales, strengthening the ecosystem's liquidity.

Expansion to Other Blockchains and Own Network

The future plan includes expanding these functionalities to other blockchains, starting with those that use Solidity as a programming language. This expansion will culminate in the creation of our own network, where burned tokens on other networks can be redeemed, adding additional value to the token and rewarding ecosystem participants.

Commitment to Innovation

The constant addition of functionalities, utilities, and innovations is at the core of the PandaPoints strategy. Our focus is on maintaining the ecosystem's activity, ensuring liquidity, and sustainable profitability in the long term for token holders.

Long-Term Vision

PandaPoints strives to revolutionize the way companies operate internationally. Through decentralization, smart contracts, and a focus on continuous innovation, we are determined to set a new standard for global enterprises.

Join us on this journey towards a more decentralized, transparent, and prosperous business future.

Technology

Smart Contract and Customized Features

PandaPoints will be developed using the Solidity 0.8.18 programming language and will follow the ERC-20 fungible token standard, ensuring interoperability with other applications and wallets compatible with the standard. In addition to the basic ERC-20 functionalities, the token's smart contract will be enriched with custom features created by the developer Felipe Pantaleão to meet the specific demands of the project.

Advanced Features

The customized functionalities that will be incorporated into the smart contract include:

- **Buying and Selling with BNB Using AMMs**: PandaPoints will allow the purchase and sale of the token in exchange for BNB using an Automated Market Maker (AMM) model. This model will follow the linear invariant curve equation, providing efficiency in price formation and market liquidity. Specific additions will be implemented to accommodate unbalanced orders in relation to liquidity pools, ensuring continuous and fair trading.
- **Exchange for FIATs and Digital Currencies**: Token holders will have the ability to exchange their tokens for FIAT currencies (such as USD, BRL, etc.) and popular digital currencies (such as Bitcoin, Monero, etc.) without the need for smart contracts. An on-chain balance recording system will be implemented, allowing transactions to occur securely and transparently.
- **Referral System**: To encourage community growth, PandaPoints will have a referral system that rewards users who bring new participants to the ecosystem with 1% of their referral's trades on the site.
- **Staking and Investment in Liquidity Pools**: Token holders will have the option to stake their assets, with a reward of 1% in 30 days. Additionally, it will be possible to invest in liquidity pools, where participants will be rewarded with 1% of the transactions, further strengthening the network's liquidity.

Expansion to Other Blockchains and Own Network

After launching on the Binance Smart Chain, PandaPoints will expand to other blockchains, starting with those that use Solidity as a programming language. This expansion will culminate in the creation of our own network, where burned tokens on other networks can be redeemed, adding additional value to the token and rewarding ecosystem participants.

The underlying technology of PandaPoints is rooted in flexibility, interoperability, and innovation, enabling the construction of a robust and prosperous decentralized financial ecosystem.

Technical Features

Token and BNB Quantity Calculations

To calculate the quantity of tokens in a balanced purchase (msg.value ≤ bnbLiquidity/100):

```
uint256 amountToBuy = ((msg.value - (msg.value * 5 / 100)) *
tokenLiquidity) / ((msg.value - (msg.value * 5 / 100)) +
bnbLiquidity);
```

Par To calculate the quantity of tokens in an unbalanced purchase (msg.value > bnbLiquidity/100):

```
uint256 amountToBuy = ((msg.value - (msg.value * 5 / 100)) *
tokenLiquidity) / ((msg.value - (msg.value * 5 / 100)) + bnbLiquidity
* (10 * bnbLiquidity));
if (amountToBuy >= tokenLiquidity / 2) {
        amountToBuy = tokenLiquidity / 100;
}
```

Calculations for the Quantity of BNB in Sales

To calculate the quantity of BNB in a sale:

```
uint256 amountofBNB = (_tamount * bnbLiquidity) / (tokenLiquidity +
_tamount);
```

Adding and Removing Liquidity

Calculations for Adding Liquidity:

```
uint256 lpRatio = tokenLiquidity * bnbLiquidity;
uint256 bnbToAdd = liqToBuy * bnbLiquidity / lpRatio;
uint256 tokensToAdd = liqToBuy * tokenLiquidity / lpRatio;
```

Calculations for Removing Liquidity:

```
uint256 lpRatio = tokenLiquidity * bnbLiquidity;
uint256 bnbToRemove = liqToRemove * bnbLiquidity / lpRatio;
uint256 tokenToRemove = liqToRemove * tokenLiquidity / lpRatio;
uint256 liquidityRewardToRemove = liqToRemove * liquidityReward /
lpRatio;
```

Emergency Liquidity Removal Function

In rare cases of pool imbalance, there is an emergency liquidity removal function. The variables are adjusted as follows:

```
if (tokenToRemove >= tokenLiquidity / 2) {
    tokenToRemove = tokenLiquidity / 100;
}
if (bnbToRemove >= bnbLiquidity / 2) {
    bnbToRemove = bnbLiquidity / 100;
}
if (liquidityRewardToRemove >= liquidityReward) {
    liquidityRewardToRemove = liquidityReward / 100;
}
```

Staking Rewards

Calculation of Staking Rewards and Duration:

```
uint256 stakeReward = _tAmount / 100;
stakingLimits[msg.sender] = block.timestamp + 2592000;
```

Function to Add Stake to an Ongoing Stake and Extend the Duration:

```
uint256 stakedReward = (stakingRewards[msg.sender] * (block.timestamp
- (stakingLimits[msg.sender] - 60))) / 60;
uint256 stakeReward = (_tAmount + stakedReward +
stakingBalances[msg.sender]) / 100;
stakingLimits[msg.sender] = block.timestamp + 2592000;
```

Fees and Distribution

Transfers between wallets will not be taxed.

`_transfer` Function Overridden to Tax Transfers from Routers (e.g., PancakeSwap):

```
uint256 feeam = amount * 4 / 100;
super._transfer(from, address(this), feeam);
super._transfer(from, PanDirectorsWallets[0], feeam / 4);
super._transfer(from, PanDirectorsWallets[1], feeam / 2);
stankingTotalBalance += (feeam / 4);
super._transfer(from, to, amount - feeam);
```

Reserved Fees on Sales:

```
liquidityReward += (amountofBNB / 100);
stankingTotalBalance += (_tamount / 100);
refVa[PanDirectorsWallets[0]] += amountofBNB/100;
refVa[PanDirectorsWallets[1]] += ( (_tamount * bnbLiquidity)*2 /
(tokenLiquidity + _tamount) ) / 100;
if (refLi[msg.sender] != 0x0000000000000000000000000000000000000000){
        refVa[refLi[msg.sender]] += (msg.value / 100);
}else{
        refVa[msg.sender] += (msg.value / 100);
}
```

Reserved Fees on Purchases:

```
refVa[PanDirectorsWallets[0]] += msg.value/100;
refVa[PanDirectorsWallets[1]] += (msg.value*2)/100;
liquidityReward += (msg.value / 100);
stankingTotalBalance += (amountToBuy / 100);
if (refLi[msg.sender] != 0x0000000000000000000000000000000000000000){
        refVa[refLi[msg.sender]] += (msg.value / 100);
}else{
        refVa[msg.sender] += (msg.value / 100);
}
```

Customized Balances and Exchanges

Adding Custom Balances for Other Currencies:

```
mapping(address => mapping(string => uint256)) public sBalance;
```

Owner-Defined Exchanges:

```
struct Stable {
    uint256 limitB;
    uint256 limitS;
    uint256 pB;
    uint256 pS;
}

mapping(string => Stable) public stables;
```

Interacting with Other Smart Contracts Using Custom Balances:

```
mapping(address => uint256) public wlStable;
```

Nomenclatures

1 PP = One Panda, One PandaPoint

x PPs = x Pandas, x PandaPoints (x != 1)

0,000000001 PP = One Pei

0,00000000x PPs = x Peis (x != 1)

Token Distribution

The distribution of PandaPoints will be executed strategically to establish a solid foundation for the ecosystem. All 1,000,000 tokens will be allocated to the initial trading pool, along with an amount of 0.01 BNB.

This distribution approach aims to encourage active community participation from the outset.

The distribution of tokens is fundamental to ensuring the ecosystem's viability, promoting healthy and sustainable trading and network participation.

Use Cases

PandaPoints is designed with a wide variety of use cases in mind, aiming to offer tangible value and significant opportunities for token holders. From the launch, the following use cases will be supported:

Long-Term Investment

PandaPoints holders will have the option to stake their assets, with a return of 1% in 30 days. Additionally, the possibility of investing in liquidity pools, with a reward of 1% of transactions, will provide an additional way to generate consistent returns over time. These options aim to cater to investors seeking sustainable gains in a decentralized environment.

Trading and Negotiation

PandaPoints will stand out as a tradable asset in the market, offering the ability to be traded directly for BNB on-chain, as well as for FIAT and digital currencies. This versatility will provide traders with a wide range of options to enter and exit the market, promoting liquidity and accessibility.

Commercial Income Generation

PandaPoints' referral system will allow ecosystem participants to earn income through the active promotion of the token. By inviting new members to the ecosystem, users will be rewarded with 1% of the activities carried out on the token's website by their referrals, creating a cycle of growth and participation.

Continuous Expansion of Features

In addition to the initial use cases, PandaPoints has a comprehensive roadmap that foresees the addition of approximately 15 new utilities and features. The CEO and developer are constantly seeking new ideas and innovations to incorporate into the token, enhancing the value of the ecosystem and providing additional opportunities for token holders.

The ability to adapt and expand is a central part of PandaPoints' strategy, ensuring it remains relevant and valuable as market needs and demands evolve.

Roadmap

PandaPoints has a detailed roadmap that includes a series of innovative and functional additions to the ecosystem. To date, several features have already been implemented, including the ERC-20 token contract, on-chain buying and selling, on-chain trading with FIAT and other currencies, on-chain referral system, staking, and the launch of the official website.

Here are the key milestones of the roadmap and planned functionalities:

- **Current Phase:**
  - ERC-20 Token Contract
  - On-Chain Buying and Selling
  - On-Chain Trading with FIAT and Other Currencies
  - On-Chain Referral System
  - Staking
  - Official Website
- **Next Steps:**
  - Implementation of the Lottery System
  - Development of the Betting System
  - Integration of a Reddit Bot
  - Integration of a Telegram Bot
  - Mobile App Launch
  - Introduction of the NFT Ticket Sales and Generation System
- **Near Future:**
  - Launch of the P2P Marketplace for Physical, Digital Items, and NFTs
  - Introduction of Themed NFTs for the Token
  - Implementation of a Simple Mixer
  - Development of a More Complex Mixer System Similar to Tornado Cash
  - Launch of the Decentralized Exchange
- **Medium-Term Future:**
  - Introduction of On-Chain and Off-Chain Social Network
  - Implementation of the P2P Payments System, Including Payment Terminals for Merchants and Card and NFC Payments for Customers
  - Launch of Mobile and Non-Mobile Electronic Games with Token-Themed Systems and Genres
- **Long-Term Future:**

- Real Estate Investment with Partial Property Ownership in the Form of NFTs and Receipt of Passive Income from the Property Directly to the Wallet Holding the NFT

The CEO and developer of PandaPoints are committed to driving continuous innovation and adding new functionalities that provide real value to token holders and the ecosystem as a whole.

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