

Treasure Game Whitepaper (EN)

I. Project Overview

Treasure Game is a multiplayer interactive competitive game developed on the Telegram platform, blending strategy, luck, and an economic system. Players join or create rooms to participate in treasure hunts, searching hidden spots for coins or USDT rewards. The game adopts a transparent economic model and integrates blockchain technology to ensure asset security and circulation, aiming to provide users with both entertainment and profit.

II. Core Functional Modules

1. Game Mechanics

Room Modes:

- Custom Room: Players pay virtual coins (10 coins) to create a room and generate a unique invitation link. Game starts automatically when 3 players join.
- Auto-Match: System automatically groups users into rooms, improving matching efficiency.

Treasure Hunt Rules:

- A 3x3 grid randomly hides one treasure. Players take turns to click cells. The first to find the treasure wins.
- Losing players are eliminated. Remaining players continue until the treasure is found.

2. Economic System

Virtual Coin & USDT:

- Exchange rate: 1 USDT = 200 virtual coins (fixed), supports two-way conversion.

Recharge: Users transfer USDT via TRC20 network to a designated address. The system distributes coins automatically.

Withdrawal: Minimum 100 USDT. 1% fee. TRC20 address binding required.

Reward Mechanism:

- Custom Room Winner: 27 virtual coins
- Auto-Match Winner: 0.3 USDT

3. Social and Referral System

Referral Rewards:

- Invite friends via unique link. When a referred user cumulatively recharges ≥ 60 USDT, the inviter receives 15 gift cards.
- Gift cards can be exchanged: 1 card + 100 coins = 1 USDT

Hierarchy: View referred users and gift cards earned from them.

4. Asset Management

Coin/USDT Transfer: Supports user-to-user transfer, 1% fee.

Address Binding: TRC20 address required for withdrawals to ensure security.

III. Technical Architecture

Framework:

- Built with Python asyncio and Telegram Bot API.
- SQLite used to store user data, transaction logs, and room information.

Security Mechanisms:

- Transaction Verification: Leverages TRON blockchain API to verify deposit authenticity.
- Replay Protection: All transaction hashes are stored to prevent duplicates.
- State Sync: Real-time update of user balance and game state to avoid conflicts.

Fault Tolerance:

- Auto-cleanup of timed-out rooms with refunds to players.

- Timeout triggers auto-actions (e.g., random click) to ensure game flow.

IV. User Guide

1. Quick Start

Registration: Join via invitation link or send /start to the bot.

Deposit: Use /deposit to get wallet address. Add your user ID in the memo field when transferring.

Start Playing:

- Custom Room: Use /create to make a room, share the link with friends.
- Auto-Match: Use /play to enter the queue and auto-assign to a room.

2. Common Commands

/balance: View your coin, USDT, and gift card balances.

/transfer <user_id> <amount>: Transfer USDT.

/withdraw <amount>: Withdraw USDT.

/myreferrals: View your referred users and their contributions.

V. Risks and Compliance

Risk Notice:

- Virtual assets may experience market volatility. Participate rationally.
- Use of cheats or malicious exploits is strictly prohibited and will result in permanent ban.

Compliance Statement:

- The game does not involve real money gambling. All rewards are part of platform operation strategy.
- Users must comply with local laws and bear responsibility for their own asset operations.

VI. Future Development

Feature Expansion:

- Add multi-language support, more game modes (e.g., team battles)
- Introduce NFT-based item system to enhance gameplay.

Ecosystem Development:

- Open developer API for third-party integration.
- Plan to build a decentralized exchange (DEX) to enable free asset trading.

Conclusion

Treasure Game deeply integrates entertainment with blockchain technology, aiming to build a fair, transparent, and sustainable digital economic ecosystem. We will continue to optimize the user experience, explore more innovative scenarios, and strive to become a benchmark project in the decentralized gaming space.

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