**Whitepaper: LuckyX Auction & Staking DApp**

**Abstract**

The LuckyX Auction and Staking DApp introduces a decentralized platform where participants engage in 100 auction rounds. Users deposit **DripX tokens** to earn **LuckyX tokens**, designed to provide rewards and value through a fair auction system. Stakers of LuckyX tokens are competing for daily lottery prices.

**Introduction**

LuckyX is a blockchain-based decentralized application (DApp) enabling users to participate in 100 auction rounds by depositing DripX tokens. In return, users receive LuckyX tokens proportional to their deposits for each auction round. The project aims to provide an exciting and fair reward mechanism, leveraging smart contracts to automate and secure all processes.

In addition to the auction system, LuckyX offers a staking platform where participants can stake LuckyX tokens to earn additional rewards through a fairness lottery mechanism

**How it works**

1. **100 Auction Rounds**:
   * The platform runs 100 consecutive auction rounds, each lasting a predefined time of 24 hours per round.
   * Participants deposit **DripX tokens** into the auction pool for the current round.
   * At the end of the round, LuckyX tokens are distributed proportionally based on the amount of DripX deposited by each participant.
   * Users can claim their rewards when the auction has ended.
   * **Example**:
   * Total DripX Deposits in Round 1: 10,000 DripX.
   * User A deposits 5,000 DripX (50% of the total pool).
   * User A receives 50% of the LuckyX tokens allocated for Round 1.
2. **Staking and Lottery**:
   * Users can stake their LuckyX tokens to earn additional rewards.
   * Entry and exit fees are collected and added to the prize pool. A **10% entry fee** is deducted from the deposit, and the remaining amount is added to the pool. In addition, there is a 10% withdrawal fee. These fees are added to the prize pool/
   * The lottery mechanism uses a verifiable random number generator (powered by Node.js) to ensure fairness.
   * The total fees collected from staking are distributed randomly to one lucky staker.
   * The probability of winning is proportional to the staker's share of the total staked amount.
3. **Fair Distribution**:
   * Rewards are distributed based on the proportion of DripX tokens deposited by each participant in the round.
   * The total LuckyX token supply is capped at **100 million**, ensuring scarcity and long-term value.
4. **Security and Transparency**:
   * All processes are governed by Solidity smart contracts.
   * Transparent event logs allow users to track their contributions, claims, and rewards.

**Tokenomics**

**DripX Token**

* Used as the input token for auction participation.
* 10% of the auctioned Dripx gets burned!

**LuckyX Token**

* A fixed total supply of **100 million** LuckyX tokens.
* Distributed as rewards in auction rounds and used for staking.

**Fees**

* **Entry Fee**: 10% on deposits in auctions and staking.
* **Exit Fee**: 10% when unstaking LuckyX tokens.
* Collected fees fund the staking lottery pool.

**Smart Contract Features**

1. **Auction Contract**:
   * Manages deposits and distributions in each auction round.
   * Ensures fairness using proportional reward logic.
2. **Staking Contract**:
   * Tracks staked balances and handles the lottery mechanism.
   * Allows users to deposit, withdraw, and participate in the lottery.
3. **Randomness Integration**:
   * Secure randomness provided by a Node.js backend.
   * Ensures fairness in the lottery mechanism

**Roadmap**

1. **Phase 1: Development and Testing**:
   * Develop and test the LuckyX and DripX token contracts.
   * Implement the auction and staking smart contracts.
   * Build a responsive front-end DApp.
2. **Phase 2: Deployment**:
   * Deploy the contracts on the **Polygon mainnet** to minimize gas fees.
   * Launch the auction rounds and staking functionality.
3. **Phase 3: Community Engagement**:
   * Onboard users through marketing and partnerships.
   * Introduce governance features for the LuckyX ecosystem.
4. **Phase 4: Expanding Utility**:
   * Explore additional use cases for LuckyX tokens.
   * Develop cross-chain compatibility for the platform.

**Conclusion**

LuckyX Auction and Staking DApp aims to create an engaging and fair platform for token holders. By combining auction mechanisms, staking, and a lottery-based reward system, it provides a unique and rewarding experience. With a focus on transparency, security, and user engagement, LuckyX is set to become a key player in the decentralized finance (DeFi) ecosystem.

**Disclaimer**

Participation in the LuckyX platform involves financial risks. Please do your own research before depositing funds, and only invest what you can afford to lose