

Wiki Contribution Token (WCT) Development Roadmap

Project Overview

Implementation plan for a Solana-based token reward system that incentivizes and gamifies wiki contributions through tokenized rewards, engagement incentives, and governance mechanisms.

Phase 1: Foundation (Months 1-2)

Smart Contract Development

☐ Token Creation

- Develop SPL token with 100M total supply
- Implement token distribution to initial wallets (60% community, 15% dev, 10% team, 10% liquidity, 5% treasury)
- Test token minting and basic transfers

☐ Fee Mechanism

- Implement 2% transfer fee logic
- Create distribution mechanism (20% burn, 50% treasury, 30% staking)
- Test fee collection and distribution

Backend Foundation

☐ Database Design

- Design schema for tracking contributions, points, and rewards
- Create relationships between wiki content and token economy
- Implement user reputation tracking

☐ API Layer

- Develop endpoints for contribution tracking

- Create services for point calculation
- Build authentication integration with Solana wallets

Frontend Elements

☐ **Wallet Integration**

- Implement Solana wallet connection (Phantom, Solflare, etc.)
- Display token balances and transaction history
- Build basic transaction UI

Phase 2: Core Functionality (Months 3-4)

Smart Contract Development

☐ **Staking Program**

- Implement tiered staking (30/90/180/365 days)
- Develop stake/unstake functionality
- Create reward distribution for stakers

☐ **Rewards Distribution**

- Build bulk distribution mechanism for weekly rewards
- Implement treasury management functions
- Test gas-efficient reward distribution

Backend Services

☐ **Contribution Metrics**

- Develop algorithms for content quality assessment
- Implement reputation scoring system
- Create demand multiplier based on topic analytics

☐ **Points Engine**

- Build point calculation service with multipliers
- Implement weekly point-to-token conversion
- Create anti-gaming detection system

☐ **Like/Upvote System**

- Implement engagement tracking
- Develop tiered rewards for content popularity
- Build rate limiting and fraud prevention

Wiki Integration

☐ **Contribution Hooks**

- Add event tracking for article creation
- Implement edit tracking and classification
- Create peer review system

☐ **User Dashboard**

- Build contribution history view
- Implement projected rewards calculator
- Develop reputation and multiplier visualization

Phase 3: Advanced Features (Months 5-6)

Governance Implementation

☐ **Proposal System**

- Implement proposal creation (min 1,000 WCT staked)
- Develop voting mechanism
- Create execution framework for approved proposals

☐ **Treasury Management**

- Build treasury visualization dashboard
- Implement fund allocation voting
- Create automated treasury operations

Enhanced Rewards

☐ **Dynamic Reward Pools**

- Implement adaptive weekly distribution based on participation
- Develop seasonal/special event bonuses
- Create topic-based incentive campaigns

☐ **Reputation System v2**

- Implement advanced reputation metrics
- Create decay mechanism for inactive users
- Develop specialization tracking

Security & Optimization

☐ **Security Audit**

- Perform complete security review of smart contracts
- Test for economic attack vectors
- Verify treasury security

☐ **Performance Optimization**

- Optimize batch operations for gas efficiency
- Implement caching for frequently accessed data
- Reduce transaction costs through batching

Phase 4: Scaling & Ecosystem (Months 7-9)

Ecosystem Development

☐ **DEX Integration**

- Establish liquidity pools
- Implement LP rewards
- Create trading analytics dashboard

☐ **Partner Integration**

- Develop SDK for third-party wiki platforms
- Create integration guides
- Build partner incentive programs

Analytics & Reporting

☐ **Economic Health Monitoring**

- Implement token velocity tracking
- Create inflation/deflation monitors
- Develop economic adjustment proposals

☐ **Contribution Analytics**

- Build content quality assessment dashboard
- Implement user contribution analytics
- Create predictive modeling for content needs

Mainnet Launch

☐ **Final Testing**

- Conduct comprehensive integration testing
- Perform load testing on all systems
- Complete final security review

☐ **Migration Strategy**

- Develop testnet to mainnet migration plan

- Create backup and recovery procedures
- Build monitoring systems

☐ **Launch Coordination**

- Prepare marketing materials
- Coordinate community events
- Execute launch sequence

Technical Stack

Blockchain

- Solana blockchain
- Anchor framework for program development
- SPL token standard

Backend

- Node.js / TypeScript for services
- PostgreSQL for relational data
- Redis for caching
- AWS/GCP for infrastructure

Frontend

- React.js for UI
- Solana web3.js for blockchain interaction
- MetricsUI for analytics dashboards

Development Resources Required

Team

- 2 Solana smart contract developers
- 2 Backend developers
- 1 Frontend developer
- 1 UX designer
- 1 Project manager

Infrastructure

- Development environments (devnet)
- Testing environments
- CI/CD pipelines
- Monitoring systems

Milestones & Deliverables

Month 2

- Basic token functionality on devnet
- Initial contribution tracking system

Month 4

- Complete reward and staking system
- Frontend integration with wiki platform

Month 6

- Governance system launched
- Enhanced reputation system

Month 9

- Mainnet launch
- Partner ecosystem established

Ongoing Maintenance

Regular Tasks

- Weekly reward distribution monitoring
- Monthly economic health assessment
- Quarterly parameter adjustments

Community Management

- Governance participation facilitation
- Regular community feedback sessions
- Contribution trend analysis

Risk Management

Technical Risks

- Smart contract vulnerabilities
- Economic design flaws
- Integration challenges

Mitigation Strategies

- Multiple security audits
- Phased implementation approach

- Extensive economic simulations
- Gradual parameter adjustment capabilities