

Centralized Meme Coin Trading & Meme Contest Ecosystem

1. Project Overview

This project aims to develop a **next-generation Centralized Meme Coin Trading & Social Engagement Platform** that combines:

A. Centralized Meme Coin Exchange

- High-performance centralized matching engine.
- Real-time order book with market, limit & stop-loss orders.
- Multi-chain wallet support (BTC, ETH, SOL, USDT).
- Fiat on/off ramp via secure escrow-based P2P system.
- Built-in token discovery, analytics, and trending dashboards.

B. Meme Coin Creation Engine

- No-code smart contract generator (ERC-20 / SPL / BEP-20).
- Admin-controlled fee slabs & execution speed tiers.
- Platform-tagged contract deployment for brand visibility.
- Adjustable fee simulator to mimic blockchain gas models.

C. Meme Contest & Gamified Engagement Module

- Dream11-style prize pool contests.
- Reddit-style voting with weighted actions (likes, shares, comments, tips).
- AI-supported virality scoring, spam removal & duplicate detection.
- Automated prize distribution & configurable reward slabs.

D. Community & Social Discovery Layer

- Leaderboards for coins, creators, and contest winners.
- Trending/newly launched coin dashboards.
- One-click sharing to WhatsApp, Telegram, X, Discord, Instagram.
- Revenue features: ads, featured coins, boosted visibility.

The final product will be a **secure, scalable, high-engagement ecosystem**, combining trading, entertainment, and creator monetization.

2. Project Goals

- Build a secure, scalable centralized trading platform with community-driven features.
- Provide users with a seamless meme coin creation and trading experience.
- Drive platform activity using contests, social sharing, and gamified participation.
- Enable multiple revenue channels:
trading fees, coin creation fees, contests, ads, boosts, P2P escrows.
- Ensure strong compliance with tiered KYC, fraud detection, and audit logs.
- Develop a cloud-native infrastructure ready for mass adoption.

3. Project Features

A. User Features

Authentication & Security

- OAuth2.0, JWT sessions, WalletConnect login.
- SMS/Email TOTP 2FA.
- Encrypted tokens, device-level risk profiling.

Wallet System

- Multi-chain crypto wallets: BTC, ETH, SOL, USDT.
- Fiat escrow wallet for P2P payments (UPI, cards, bank transfer).
- Deposit/withdrawal logs, fraud checks.

Meme Coin Creation

- Auto-deployment smart contract engine.
- Custom coin parameters (supply, tax, renounce, burn).
- Execution tiers: Normal / Fast / Instant (fee-based).

Trading

- Real-time order book, charts, and price feed.
- Market, limit & stop-loss orders.
- Admin-controlled sell caps to prevent pump-and-dump.
- DexScreener-style chart UI.

Social Features

- Share coin/meme links to social platforms.
- Watchlists, alerts, trending sections.

Contest Engine

- Upload memes (image, video, GIF).
- Weighted voting & engagement.
- Viral scoring via AI.
- Contest leaderboards & prize distribution.

B. Admin Features

- **User Management:** KYC flows, banning, fraud monitoring.
- **Coin Moderation:** Approvals, fee controls, scam detection.
- **Contest Management:** Create, manage, judge panels, approvals.
- **Finance:** Fee setup, revenue analytics, tax/exportable reports.
- **Ads:** Banner scheduling, featured coin slots, performance tracking.
- **Fraud Detection:** IP fingerprinting, bot detection, anomaly alerts.

4. Platform Pages

User-Facing

- Home / Trending Dashboard
- Login / Signup / KYC
- Wallets (Crypto + Fiat)
- Trading Dashboard
- Coin Creation
- Contests (Active / Upcoming / Results)
- Meme Submission Page
- Profile (History, Watchlist, Alerts)

Admin Panel

- Admin Dashboard (KPIs, P&L)
- User Management (KYC, flags)
- Coin Management (approvals, fees)
- Contest Management
- Finance Reports
- Fraud Monitoring
- Ad Manager

5. Platform Journey

User Journey

1. Register/Login → KYC (optional tiers).
2. Deposit via crypto or fiat P2P.
3. Explore trending coins or contests.

4. Create a meme coin with customizable fees.
5. Trade using charts and order types.
6. Participate in contests → submit or vote.
7. Earn prizes & trading profits.
8. Withdraw crypto/fiat.

Admin Journey

1. Login with 2FA.
2. Manage KYC & suspicious users.
3. Approve coins & adjust fees.
4. Set up contests & prize pools.
5. Oversee financials & revenues.
6. Monitor fraud dashboards.
7. Run paid ads & promotions.

6. Scope of Work

- Centralized trading engine (high-performance).
- Meme coin creation engine (with admin controls).
- Multi-chain wallets + P2P fiat escrow.
- Contest engine with submissions, voting & rewards.
- Discovery, social sharing & analytics.
- Complete admin panel (users, coins, contests, finance).
- Fraud & compliance (KYC, 2FA, audit logs).
- Mobile-optimized web + native mobile apps (iOS/Android).

7. Technical Architecture

Frontend

- React.js (Web), React Native/Flutter (Mobile)
- TailwindCSS + ShadCN UI
- API integration via REST/GraphQL

Backend (Microservices)

- Node.js (NestJS) or Python (FastAPI/Django)
- Services:
Auth · Wallet · Trading Engine · Contest Engine · Notification · Fraud Service
- Databases: PostgreSQL, Redis

Blockchain

- Ethereum, Solana, Bitcoin, USDT
- WalletConnect authentication
- Smart contract generator microservice

Trading Engine

- Built in Go/Node.js
- In-memory order books
- Redis failover backup
- FIFO execution

Security

- AES-256 encryption
- TOTP 2FA
- Device/IP fingerprinting
- Immutable logs

8. Deployment Architecture

- **Cloud:** AWS/GCP/Azure
- **Kubernetes Microservices**
- **Load Balancer:** Nginx/ELB
- **Database:** PostgreSQL master-replica cluster
- **Cache:** Redis
- **Storage:** S3/Cloud Storage
- **CDN:** Cloudflare
- **Monitoring:** Prometheus + Grafana
- **CI/CD:** GitHub Actions / Jenkins

9. Development Timeline & Milestones

Phase	Duration	Deliverables	Milestone
Phase 1		Auth, Wallets, Admin	Foundation Complete
Phase 2		Trading Engine, Coin Generator	Trading Live
Phase 3		Dashboards, Social, Ads	Community Layer Live
Phase 4		Contests, Voting, Leaderboards	Contest Engine Live
Phase 5		Fraud, Reporting, Mobile Apps	Production-Ready Platform

Total Duration: - Weeks

10. Estimated Costs & Payment Terms

Total Project Cost: ₹

Phase	Cost (₹)	Payment
Upfront		Project Start
Phase 1		Milestone 1
Phase 2		Milestone 2
Phase 3		Milestone 3
Phase 4		Milestone 4
Phase 5		Final Delivery