

# Trading Platform Development Roadmap (No KYC, Friends-Only)

## Phase 1: Planning & Design

- Define features: user auth, wallet, trading engine, admin panel, CRM
- Western/European user base
- No P2P, no KYC, friends-only platform
- Responsive web design, mobile-ready
- Choose stack: Next.js (Frontend), FastAPI (Backend), PostgreSQL (DB)

## Phase 2: Development Setup

- Set up Git repo, Docker
- Create initial folder structure for frontend/backend
- Design database schema for users, trades, wallets
- Set up CI/CD pipeline (GitHub Actions, Docker build)

## Phase 3: Core Module Development

- Auth system (JWT, no email/phone KYC needed)
- Wallet module: deposit/withdrawal (manual or crypto self-hosted)
- Trading engine (limit/market order matching, ledger updates)
- Admin panel for managing users and transactions

## Phase 4: Integrations

- Free charting tool (TradingView/ApexCharts)
- Free price APIs (CoinGecko, Yahoo Finance)
- Self-hosted CRM (like Chatwoot or simple ticketing)
- Notification system via WebSocket + Email alerts (SMTP)

## Phase 5: Security & Monitoring

- HTTPS setup with Certbot

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- Input validation, rate limiting, session security
- Admin activity logging
- Use monitoring tools (Netdata, Prometheus)

## Phase 6: Testing

- Manual and automated UI tests
- Backend unit and integration tests
- Simulate trade loads, check order book performance
- Security tests for basic vulnerabilities

## Phase 7: Deployment

- Deploy backend and frontend on VPS (Hetzner/Oracle Free Tier)
- Use NGINX as reverse proxy
- Set up backups for DB
- Add SSL certificate

## Phase 8: Post-Launch

- Fix early bugs
- Collect user feedback
- Improve UI/UX
- Consider mobile app and additional trading features later