

7GoldenCowries – FINAL HYBRID TECHNICAL & BUSINESS PRD (v1.2 – C

VERSION: v1.2 – DATE: November 8, 2025

OWNER: Founders & Engineering Team @7GoldenCowries

MISSION: Empower users through task-to-earn quests and staking rewards on TON blockchain.

OVERVIEW:

7GoldenCowries is a Web3 task-to-earn platform blending mythology, gamification, and blockchain economics. Users connect their TON wallet, complete quests, earn XP, stake tokens, and ascend through seven Isles of Virtue.

1. BUSINESS GOALS

- Launch the full platform (Frontend + Backend + TON) by Q4 2025.
- Monetize via TON token sale (\$GCT) and subscription tiers.
- Enable TON-only staking and XP-based progression.
- Establish partner ecosystems for brand-sponsored quests.

2. TOKENOMICS & ECONOMY

Token: Golden Cowry (\$GCT)

Chain: TON Mainnet

Total Supply: 100,000,000 GCT

Public Sale Price: \$0.02 USD (converted live to TON)

Utility: Staking, XP boosts, subscription tier access.

Allocation:

- Public Sale: 20M (20%)
- Community Quests: 20M (20%)
- Staking Rewards: 40M (40%)
- Treasury & Team: 20M (20%)

Mechanics:

- TON-based payments only.
- Smart transaction verification via backend.
- Emissions tracked and limited by backend staking module.

3. ARCHITECTURE OVERVIEW

Frontend: React + TonConnect UI Provider + Wallet Context

Backend: Node.js (Express) + SQLite3 + TonAPI

Hosting: Vercel (Frontend) / Render (Backend)

Database: SQLite Persistent Volume

Blockchain: TON Mainnet

System Modules:

- Quest Engine
- Wallet & XP Sync

- Subscription Tiers
- Token Sale & Staking
- Referral System
- Isles Map Progression
- Leaderboard

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4. FRONTEND MODULES

Main Components:

- App.js: Router and global provider.
- GlobalWalletButton.jsx: Floating wallet connect button (TonConnect).
- Profile.js: XP, wallet, level, tier, rewards.
- Subscription.js: TON-only tier selection (Free, Tier 1–3).
- TokenSale.js: Real-time TON conversion and purchase interface.
- Isles.js: 7 Isles unlock map.
- Leaderboard.js: XP ranking and progression visuals.

QUEST SYSTEM (Updated):

Tabs visible on production (7goldencowries.com):

1. All Quests – Full aggregated list.
2. Daily – Time-limited recurring XP quests.
3. Social – Twitter (X), Telegram, Discord verification tasks.
4. Partner – Brand/sponsor tasks.
5. Insider – Onchain or staking-linked tasks.

Each quest = (id, title, type, xpReward, verificationType, linkURL)

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5. BACKEND MODULES

Key Routes:

- /api/auth/twitter/* → OAuth verify follow, retweet, quote.
- /api/auth/telegram/* → Verify via bot connection.
- /api/auth/discord/* → Verify guild membership.
- /api/quests → Fetch active quests.
- /api/quests/:id/verify → Verify completion.
- /api/users/me → Fetch user + XP + level data.
- /api/session/bind-wallet → Wallet ↔ user link.
- /api/token-sale → TON payment verification.
- /api/staking → Stake/unstake operations.
- /api/referrals → Referral generation + reward claim.

Database Tables:

users (id, wallet, twitterHandle, telegramId, discordId, xp, level, levelName, referralCode, subscriptionTier)

quests (id, title, type, rewardXP, verificationType, link, isActive)

referrals (id, referrer, referred, claimed, xpAwarded)

subscriptions (id, wallet, tier, tonAmount, startDate, endDate)

token_purchases (id, wallet, tonAmount, usdValue, txHash, timestamp)

staking (id, wallet, stakedTON, rewardTON, lastClaim)

6. XP SYSTEM & LEVELS

Progression (hard leveling curve):

1. Shellborn – 0 XP
2. Wave Seeker – 10,000 XP
3. Tide Whisperer – 25,000 XP
4. Current Binder – 60,000 XP
5. Pearl Bearer – 100,000 XP
6. Isle Champion – 175,000 XP
7. Cowrie Ascendant – 250,000 XP

$XP = baseXP * tierMultiplier * questMultiplier$

Tier multipliers: Free (x1.0), Tier1 (x1.25), Tier2 (x1.5), Tier3 (x2.0)

7. ROADMAP (PHASED EXECUTION)

Phase 1 – Q4 2025 (Launch)

- Full TON wallet integration
- Live quests, XP, and Isles
- Token Sale live
- Oceanic UI polish

Phase 2 – Q1 2026

- Staking module + XP rewards
- Referral leaderboard

Phase 3 – Q2 2026

- Seasonal quests, new Isles

Phase 4 – Q3 2026

- Cross-chain + mobile dApp

8. UI/UX DESIGN

Theme: Oceanic Deep Blue & Golden Cowries

Palette: #02101f (dark sea), #40c4ff (aqua), #ffe082 (gold)

Aesthetic: Mystical oceanic, glowing XP bars, shell badges.

9. SECURITY & DEPLOYMENT

- Rate limit (60 RPM per IP)
- Helmet + CORS whitelist
- SQLite WAL journaling
- TonConnect manifest at apex domain

Deployment:

Frontend → Vercel

Backend → Render

DNS → A:76.76.21.21 / CNAME: cname.vercel-dns.com

10. LAUNCH CHECKLIST

- Wallet connect (mainnet verified)
- API endpoints active (/api/health OK)
- Token sale TON transactions verified
- XP updates and sync stable
- Quests fully functional
- Domain DNS propagation complete
- TLS valid (<https://7goldencowries.com>)
- Referral links operational

11. POST-LAUNCH GROWTH

- Add staking leaderboard.
- Partner campaigns with TON ecosystem.
- Expand Isles narrative quests.
- Analytics integration (TON + Telegram).

This document serves as the unified technical + business PRD for all teams and ChatGPT Codex workflows.