KODEX.WORLD FULL PLATFORM SPEC & REMIX PLAN (SPRING 2025 FINAL VERSION)

PHILOSOPHY:

KODEX is a cyber-zen learning ecosystem designed for mindful technologists.

It teaches cybersecurity, digital fluency, and creative technical literacy through

modular Labs, forkable Projects, a dynamic Forum, and gamified reflection systems.

It is poetic, secure, scalable and alive.

ACCESS & PERMISSIONS

All site routes are viewable by the public, but the following actions require authentication:

Only logged-in users can:

- Start or resume Labs or Projects

- Submit quizzes or mark tasks complete

- Access the Dashboard and Notifications

- Post to or comment in the Forum

- Like posts, follow users

- Earn XP, badges, and avatar items

- View progress, notes, and devlogs

UX/UI GUIDELINES

- Typography: Orbitron (uppercase, increased tracking), Inter for body

- Layout: Responsive with glassmorphic dark mode aesthetic

- Glow styling: KODEX wordmark always uses glow-gradient span or class

- Grid: Subtle terminal-style background with smaller cell size

- XP Ring: Animated, visible only to logged-in users on dashboard

- Notifications: Bell icon appears only when logged in

- Navbar Logic:

  - Guests: XP ring + Sign In

  - Logged-in: Avatar + notification bell + Sign Out

- Countdown Module: Optional timer for next Lab/Project drop

- Add to Calendar Button: Trigger .ics download or Google calendar link

CORE MODULES

1. LABS
- Route: /labs/:id
- Markdown-rendered content
- Metadata: title, level, xp, video, timestamps, quiz[], tasks[], badgeId
- Features:
  - Embedded YouTube walkthrough
  - Timestamp navigation
  - Quiz system
  - Task checklist
  - Notes section
  - Completion triggers:
    - XP
    - Badge
    - Aggregated notes suggested Devlog thread

2. PROJECTS
- Route: /projects/:id
- Metadata: title, level, xp, repoUrl, timestamps, tasks[], badgeId
- Features:
  - Fork button linked to GitHub
  - Timestamped video walkthrough
  - Task checklist
  - Auto-save notes
  - Completion triggers XP, badge, devlog suggestion

3. DASHBOARD
- Private view for logged-in users only
- XP ring with animation
- Avatar builder + badge display
- Saved notes & reflections
- In-progress Lab/Project tracker
- Notifications for likes, follows, comments

4. FORUM

- Threads, comments, reactions
- XP-based user engagement
- Suggested Devlog threads after module completion
- Roles, badges, and avatars shown with posts
- Admin moderation tools: pin, delete, flag

5. ADMIN PANEL

- Route: /admin
- Protected by role check
- Create/Edit/Delete Labs, Projects, Badges
- Moderate Forum content
- View user progress

COMMUNITY SYSTEMS

- Discord: https://discord.gg/6xyj2xshxY
- YouTube: https://youtube.com/@nessakodo
- GitHub: https://github.com/nessakodo
- Newsletter endpoint: /api/newsletter/signup (dummy)
- Newsletter name: KODEX SIGNAL

DATABASE MODEL (SUPABASE)

Users:
- id, username, email, hashedPassword
- xp, level, avatarConfig, badges[], completedLabs[], completedProjects[]

Labs:
- id, title, mdPath, xp, video, quiz[], timestamps[], tasks[], badgeId

Projects:
- id, title, repoUrl, overviewMd, xp, tasks[], timestamps[], badgeId

Notes:
- id, userId, labId/projectId, content, createdAt

ForumPosts:
- id, userId, title, content, tags[], createdAt

ForumComments:
- id, postId, userId, content, createdAt

Badges:
- id, name, description, iconUrl, unlockCriteria

NewsletterSubscribers:
- id, email, createdAt

BACKEND ROUTES (API)

Auth:
- POST /api/auth/login
- POST /api/auth/register
- POST /api/auth/logout

Labs:
- GET /api/labs
- GET /api/labs/:id
- POST /api/labs/:id/complete

Projects:
- GET /api/projects
- GET /api/projects/:id
- POST /api/projects/:id/complete

Progress & XP:
- GET /api/dashboard
- POST /api/progress/update

Notes:
- GET /api/notes
- POST /api/notes
- DELETE /api/notes/:id

Forum:
- GET /api/forum-posts
- POST /api/forum-posts
- POST /api/forum-posts/:id/comments
- POST /api/forum-posts/:id/like
- DELETE /api/forum-posts/:id (Admin only)

Newsletter:
- POST /api/newsletter/signup

Admin:
- /api/admin/labs (POST, PUT, DELETE)
- /api/admin/projects (POST, PUT, DELETE)
- /api/admin/badges (POST, PUT, DELETE)

REPLIT REMIX DELIVERABLES

1. KodexZen.zip UI source (glassmorphic + Orbitron base)
2. KODEX Microcopy Suite.zip Full UI language system
3. KODEX_SiteSpec_RemixPrompt_FINAL.pdf This file
4. Claude_Routes_Architecture.png Backend and data logic
5. Screenshot folder visual references
6. (Optional) Seed content: project-data.json, .md files

REPLIT PROMPT

Remix the provided KODEX.WORLD project into a full-stack educational platform using Next.js and Supabase. Ensure all views are publicly visible, but protect actions with auth. Build every feature from

backend to badges. Honor the cyber-zen design, and bring this OS to life.

This is a secure, poetic, full-stack OS for intentional builders. Build it beautifully.

END OF SPEC