LEVL - Longevity Protocols Web App

Company Description:
LEVL is an AI longevity startup targeting the biology of aging to create novel nutraceutical formulations and personalized protocols to help people live longer, healthier lives.

By leveraging the tools of AI drug discovery to identify synergistic combinations of naturally derived ingredients, certain formulations are emerging that rival the potency of comparable pharmaceuticals without the side effects and regulatory timelines of traditional drug development. Our first Patented formulation using this process mimics fasting-induced cellular rejuvenation without the need for caloric restriction, and in our testing is comparable to the leading anti-aging pharmaceutical, Rapamycin.
We are commercializing these breakthroughs under the LIFESPAN+ brand to deliver foundational cellular support, tackling the root causes of age-related decline while providing immediate functional benefits of Energy, Sleep, Focus, Calm, etc.
Our companion app dynamically optimizes personalized longevity protocols based on users' biomarkers and qualitative feedback, effectively slowing their pace of aging.

Students will directly contribute to developing our open-source longevity knowledge graph, powered by the frontier of aging research and anonymized user data, to democratize anti-aging research in pursuit of LEVL's ultimate mission: Achieve Longevity Escape Velocity, and eliminate age-related disease.

Preferred Team Size: 3-5

Location: Remote - With virtual access to the team throughout the entire program

Project Summary:

Build the **Longevity Protocols Web App**: a clean, responsive interface where users discover, schedule, and track evidence-backed longevity protocols. Key goals are (1) an intuitive calendar-style workflow that makes daily adherence effortless, (2) rich interaction gestures for in-the-moment edits, and (3) sharable, influencer-verified protocol stacks that drive viral growth. This front-end will become the public gateway to LEVL's recommendation engine and digital-twin analytics.

Core Deliverables

1	**Unified Design System**	Implement a responsive design system (typography, spacing, dark/light themes, reusable components). Document it in Figma and code for easy reuse across web & mobile.

2	**Interactive Day-View & Gestures**	Horizontal "now" timeline with pinch-zoom (hour → year). Gesture set: tap = complete, double-tap = "did now," swipe-forward = reschedule, swipe-up = delete (with 3-s undo), long-press = detail/edit.
3	**Calendar & Scheduling**	Drag-and-drop modality events, auto-scroll to "now," customizable calendar feeds, end-of-day checklist to confirm or annotate skipped items.
4	**Adherence & Feedback Capture**	End-of-day feel slider (1-10) stored with adherence data. Pre/Post Modality prompt flow: capture 1-10 ratings on up to two suggested metrics (energy, focus, stress, mood, etc.) with user-editable options.
5	**Growth & Social Features**	Referral-enabled stack links (track clicks → installs via Monetization API). "Influencer-Verified" badge and featured placement for curator-approved protocol stacks for user discovery and implementation. Popular / featured influencer stacks discovery: provide a browsable gallery that surfaces the most-effective, trending, or influencer-curated protocol stacks and lets users copy or share them
6	**API & Dev-Ops Alignment**	Consume versioned GraphQL/REST endpoints from backend; expose clean event hooks so downstream analytics and testing modules receive real-time adherence data.
7	**Modality Creation & Experimentation Backlog**	Allow users to manually create new protocol modalities or auto-generate them via the Longevity Knowledge Graph and AI assistant. Support extracting modalities from scientific papers, web articles, or chat-based suggestions. Maintain a personalized backlog of modalities for users to experiment with manually or through AI-curated recommendations.

Stretch Goals

- **Custom Notification System** — modality-aware reminders (push / email / SMS) that honor user quiet hours and local time-zone.
- **Streaks & Gamification** — light achievement system to reinforce adherence without undermining scientific rigor.
- iOS and (or) Android app development

- Output daily/weekly protocol as email and printable PDF
- **A/B Testing Harness** — feature flags + opt-in experiments to refine UX and engagement loops.
- Embed SDK for Influencer Courses: JavaScript/iFrame snippet that lets third-party course sites embed stack widgets and push adherence back to LEVL.
- Visual formulation potency throughout day: Visualize the potency half-life for supplement modalities based on opacity in the calendar, enabling informed supplement/modality stacking. Start with LIFESPAN+ formulations with known efficacy half-lives.
- Offline-first caching with conflict-free merge on reconnection
- Embed affilliate purchase links for top rated physical products recommended in protocol. Super stretch goal: enable AI agent purchasing of everything required for protocol.
- Composite Longevity Score: calculate an overall 0–99 plus subsystem scores for functional domains (Sleep, Metabolism, Cognition, Energy, Immunity) and organ systems (Heart, Brain, Liver, Eyes)
- Impact Drill-Down UI: click-through pane that shows each modality's contribution to the overall and subsystem scores, including hallmarks-of-aging mapping and effect-size rationale, with links to relevant scientific sources

Scientific Relevance

This web app brings LEVL's longevity science to life by transforming personalized protocols and biomarker feedback into a dynamic, daily habit loop. By capturing high-resolution adherence and pre/post symptom data, the platform continuously refines each user's digital twin—creating a self-improving system that accelerates real-world discovery of which interventions most effectively slow the biological aging process. This closed feedback loop not only personalizes care, but also generates one of the richest longitudinal datasets in aging science, enabling rapid validation of novel therapeutics and protocols at scale.

Desired Skill Set

We welcome product-minded builders who enjoy crafting polished user experiences:

- Comfort designing interactive UI flows and state management
- Exposure to any modern web framework (React, Vue, Svelte, etc.)
- Basic familiarity with REST or GraphQL APIs and JSON data
- Interest in health, habit-forming products, or quantified-self tools

No single tool is mandatory—curiosity, clean code, and rapid iteration matter most.

Student Benefits

1. Own a flagship feature seen by every LEVL user.

2. Gain hands-on experience with frontier models, scientific literature parsing, knowledge graph construction, and health optimization. Gain experience with startup-style product thinking and stakeholder collaboration.
3. Collaborate with designers, scientists, and growth marketers in an agile startup setting.
4. Build a portfolio piece that blends UX craft, data capture, and health impact.
5. Potential for continued work with LEVL or introductions to partner longevity companies.
6. Complimentary LIFESPAN+ products to boost focus, sleep, and energy during the term.

IP Rights

Students will sign LEVL's standard IP assignment; all code, data, and documentation remain property of LEVL, Inc.

Contact

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