LEVL - Longevity Protocols App - Meditations of Awe - Demo Modality Plugin

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:

Objective:
Build the flagship demonstration module for LEVL's plugin framework: an immersive, context-aware "Meditations of Awe" experience that delivers short audio-visual sessions proven to increase well-being and habit stickiness. The project proves that, through a single privacy-first SDK, external creators can bypass new-account and data-handoff hassles, tap instantly into LEVL's rich user context, adapt content in real time, capture outcome metrics, and share in revenue—all while staying inside the platform's strict design and security guardrails.

Core Deliverable:
Enable the simple development of complementary longevity modalities, with a user-facing meditation 'applet'

- Lifecycle Hooks Implementation: wire up `init → getContext → postMetrics → teardown` to the stable Plugin SDK so the module loads, plays, and unloads cleanly inside the LEVL app.
- Intuitive Interface: Implement a thoughtfully designed navigation interface that complements the rest of the LEVL Protocols app aesthetic.
- Content Selector: use context tokens (time-of-day, stress proxy, upcoming sleep/workout schedule) to choose a calming, energizing, or inspirational meditation track—fallback to default if context is missing. (Initial content will be provided by the LEVL team)
- Audio-Visual Player: render 3- to 8-minute guided meditation videos with synchronized breath-pacing overlays; support seamless pause/resume, skip, and volume gestures.
- Breath-Pacing Overlay: animate inhale/hold/exhale rings that adjust cadence to the selected track and user-reported stress level.
- Qualitative Metrics Prompt: immediately pre- and post-session, prompt the user for 1-to-10 ratings on stress, mood, and focus; post results to the Modality Efficacy Collector schema.
- Usage Telemetry: emit `start`, `pause`, `complete`, duration, and subjective-rating events to the analytics bus; include anonymized module and user IDs only.
- Revenue-Share Manifest: declare pricing tier and revenue-split in `manifest.json`; trigger Stripe webhook on session completion for payout accounting.
- Offline-Ready Asset Cache: pre-download core tracks and visuals, falling back gracefully when offline.
- PII-Safe Data Flow: accept only anonymized context tokens; send back aggregate results—never raw identifiers.
- Module Certification Compliance: pass the automated linter for privacy budget, performance budget (< 150 MB memory on mobile), and UX guidelines (WCAG 2.1 AA).
- Developer Docs Section: add a cookbook page (“How we built Meditations of Awe”) to the SDK docs, highlighting context consumption, metric posting, and revenue-share hooks.
- Hosted Landing Microsite: auto-generate a public page at `awe.LEVLHealth.com` (subdomain configurable) with description, workable demo, and “Add to My Stack” CTA—serving as a customer-acquisition surface and SEO entry point for LEVL.
- AI Coach Integration Hook: upon session completion send qualitative metrics and timestamps to the AI Longevity Coach service; trigger the coach to ask reflective follow-up questions, reference past awe sessions, and invite continued dialogue if the user opts in.

Scientific Relevance:

A growing body of research shows that brief, structured awe experiences can rapidly reduce stress hormones, widen time perception, and boost prosocial behavior—outcomes tightly linked to longevity and mental resilience. Instrumenting these sessions within LEVL gives researchers a high-resolution window into how awe modulates physiological and psychological markers in real-world settings.

Stretch Goals:

- Dynamic breath-rate modulation based on live heart-rate variability (from Core Platform sensor stream).
- A/B content experimentation engine to auto-optimize narration style, background music, or imagery.
- Community “reflection board” where users can anonymously share post-session insights—moderated via Coaching API.
- Multi-lingual voice-over tracks auto-selected by device locale.
- VR Support

The students will be involved in every phase of the project from design through implementation. During the design phase, the students will interact with LEVL researchers to collect requirements and scope the development effort into manageable tasks. They will also gain experience with agile product development in a fast-paced startup environment, using the RICE prioritization framework and collaborating closely with business stakeholders to guide decisions and maximize impact.

Desired Skill Set:
Perfect for students who enjoy building polished user experiences and developer tools. Front-end strength in React Native or a cross-platform video framework, basic animation/math for breath pacing, and comfort reading context from a REST/WebSocket API will accelerate development. Experience with media pre-caching, event-based analytics, and writing clear Markdown/MDX docs is valuable. Above all, the project rewards thoughtful UX craft, clean API usage, and an eye for measurable scientific impact.

Student Benefits:

1. Modular Extensibility (SDK): students will design a public-facing plugin framework, sharpening API design and developer-experience skills, while learning the business case for developer platforms.
2. Gain hands-on experience with frontier models, scientific literature parsing, knowledge graph construction, and health optimization.
3. Enjoy creative freedom to design and solve open-ended, high-impact problems that push the frontiers of human life extension.
4. Each team will ship an independent, modular contribution with clear ownership and a path to public demo or open-source release.
5. Top-performing students may be invited to continue working with LEVL or be referred to partner startups in the healthtech and AI space.
6. Complimentary LIFESPAN+ products to improve sleep, boost energy & focus, and mitigate the effects of stress.

IP Rights:

Students will be asked to sign a proprietary information and intellectual property assignment agreement. Intellectual property rights to all code, data, and documentation will be retained by LEVL, Inc.

Contact Information:

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