LEVL - Longevity Protocols AI Studio

Company Description:
LEVL is an AI-native longevity startup building novel nutraceutical formulations and personalized protocols to help people live longer, healthier lives.

By leveraging AI-native research and product-development tools, LEVL identifies promising combinations of naturally derived ingredients and translates them into products and protocols that target the biology of aging while delivering functional benefits like Energy, Sleep, Focus, and Calm.

Our companion app dynamically optimizes personalized longevity protocols based on users' biomarkers and qualitative feedback, helping them improve their pace of aging over time.

Students will directly contribute to building the protocol intelligence layer behind LEVL's ecosystem: the system that transforms fragmented longevity advice from creators, articles, podcasts, papers, transcripts, and social posts into structured, reviewable, and implementable LEVL protocol objects. This infrastructure will support future protocol discovery, creator publishing, recommendation systems, and sharable protocol experiences in pursuit of LEVL's ultimate mission: Achieve Longevity Escape Velocity, and eliminate age-related disease.

Preferred Team Size: 4
Location: Remote - With virtual access to the team throughout the entire program

Project Summary

Objective:

Develop the MVP version of LEVL's Longevity Protocols AI Studio, a modular platform that converts messy, real-world protocol content into structured LEVL protocol objects.

The overall LEVL protocol structure has already been defined. This project focuses on the workflow that ingests unstructured protocol content, extracts protocol logic, maps it into LEVL's existing format, and routes it through a human review layer before approval or publication.

The system should accept inputs from sources such as web articles, creator writeups, newsletter excerpts, transcripts, social posts, scientific papers, podcast summaries, and raw pasted text. It should then generate a clean draft protocol that can be reviewed, edited, and saved in LEVL's canonical format.

This project builds the structured protocol layer that can later power creator tools, sharable protocol galleries, recommendation loops, and even a social feed of real protocols people can

actually implement. Those downstream surfaces are out of scope for this project, but the system should be designed so they become much easier to build.

Core Deliverable

Functional Protocol Studio v1

1. Multi-Source Protocol Import Interface
Build a clean internal interface where LEVL team members can submit protocol content as raw text, transcript snippets, article excerpts, URLs, paper text, or social post text. The system should handle messy inputs and create a draft import job for each one.

2. AI Parsing + Canonical Mapping
Create the core AI-native pipeline that extracts protocol steps and maps them into LEVL's existing protocol structure. This should include timing, dosage, modality type, sequencing, duration, frequency, goal, target outcomes, implementation notes, and caveats whenever present or inferable.

3. Human Review + Provenance Workflow
Ship an internal review interface that allows a human reviewer to inspect AI-generated protocol drafts, edit fields, resolve ambiguities, approve or reject extractions, and save finalized versions. Preserve traceability back to the original source and surface confidence or uncertainty where useful.

4. Protocol Similarity + Variant Detection
Build lightweight logic to detect when imported protocols may overlap with existing LEVL protocol objects or represent slightly different variants of the same protocol. Surface similar protocols, shared modalities, and notable differences to improve consistency over time.

5. Platform Integration Hooks
Expose clean internal APIs or structured export paths so protocol objects from the Studio can be consumed by the LEVL Protocols App, recommendation systems, knowledge graph workflows, and future creator-publishing surfaces.

Stretch Goals

- **Creator Import Mode:** Allow a creator or internal curator to submit a protocol and co-edit the imported draft with AI assistance before publishing.
- **Protocol Feed Readiness:** Structure output so imported protocols can later power a browsable protocol gallery, creator discovery surfaces, or social feed without requiring a rewrite of the ingestion layer.
- **Batch Import Jobs:** Support importing multiple articles, transcripts, or posts at once for protocol extraction and queue-based review.

Scientific Relevance

A massive amount of longevity advice already exists, but most of it is buried in formats that are hard to compare, implement, test, or improve. This project helps transform fragmented protocol knowledge into structured objects that can actually be used inside a real system, laying the groundwork for protocol comparison, structured experimentation, adherence tracking, and real-world outcome analysis over time.

Desired Skill Set

This project is ideal for students who enjoy building AI-native systems at the intersection of LLM workflows, structured data, and product design. Helpful skills include full-stack development, comfort with APIs and data pipelines, and interest in text extraction, structured generation, or health optimization. Bonus if students have worked with embeddings, internal tools, or human-in-the-loop AI systems, but none of that is required. LEVL is built with AI-native tools and expects students to use modern AI workflows to move quickly and build clean, modular systems.

Student Benefits

1. Gain hands-on experience building an AI-native product that turns messy real-world health content into structured, usable protocols.
2. Work at the intersection of LLM workflows, creator tooling, structured data, and personalized health optimization.
3. Ship a foundational system that could power future protocol discovery, sharable stacks, creator publishing, and recommendation workflows across LEVL.
4. Build a standout portfolio project with visible downstream product impact, not just a back-end demo.
5. Collaborate directly with startup stakeholders on architecture, product decisions, and future platform direction.
6. Top-performing students may be invited to continue working with LEVL or be referred to partner startups in the healthtech and AI space.
7. Complimentary LIFESPAN+ products to improve sleep, boost energy & focus, and mitigate the effects of stress.

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