

# Product Requirements Document

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**Product Name:** CogniTutor

**Theme:** An AI-powered guide that transforms the chaos of YouTube into a clear, structured, and personalized learning path.

**Version:** 1.0

**Date:** September 2, 2025

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**Demo:** [Click Here](#)

## I. What Problem Are We Solving?

Students today are drowning in a sea of online content. When they need to learn something, they jump on YouTube, but what they find is chaos. There's no clear starting point, no logical order, and no way to know if a video is any good until they've already wasted 20 minutes on it.

This messy, unstructured approach makes learning stressful and inefficient. Students spend more time searching for good material than actually studying. They end up feeling frustrated, confused, and uncertain about whether they've truly grasped the concepts.

### Our Objective:

We're building an AI-powered guide that transforms the chaos of YouTube into a clear, structured, and personalized learning path. We want to take students from feeling **confused** to **confident** by making the learning process simple, engaging, and effective.

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## II. Who Are We Building This For?

### Primary Audience: Students

This includes high schoolers cramming for exams and university students trying to master particular **chapters/topics**. They need reliable, efficient ways to supplement their classes and get ahead.

### Secondary Audience: Lifelong Learners

This is for any curious person—**professionals, hobbyists**, —who wants to pick up new skills without the headache of figuring out where to start.

### What Keeps Them Up at Night?

- **Wasted Time:** *I spent two hours just trying to find a decent video series on thermodynamics.*
- **Uncertainty:** *Did I actually learn that, or did I just watch a video? I have no way to check my understanding.*

- **Getting Stuck:** *The video didn't make sense, and now I'm stuck. What do I watch next?*
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### III. Product Strategy & Features

**Our Vision:** To be the smartest and most intuitive learning tool on the market. We want to create a learning experience so seamless that the user forgets they're watching disconnected YouTube videos and instead feels like they're taking a **personalized course** designed just for them.

**How We'll Do It:** We'll use AI to act as an **expert tutor**. It will listen to a student's goal, build a custom **course** from the best and quality videos on YouTube.

#### Key Features:

- **Sign-In:** Users can sign in easily using their Google account.
  - **Module Dashboard:** After signing in, users will be taken to their module dashboard. From there, they can select the "**Set Your Goal**" option, which redirects them to the AI chatbot.
  - **AI Chatbot:** The AI chatbot interface asks, "What do you want to learn today?"
  - **Instant Modules:** Based on the user's answer (e.g., "Master Organic Chemistry"), our AI instantly builds a module—a logical sequence of high-quality videos to guide them. The new module then appears on the dashboard.
  - **Module Details:** When the user clicks on a module, they are taken to a dedicated page that displays the module's title, details, and all the curated videos within it.
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### IV. Priorities & Trade-offs

We need to nail the core experience first and ensure our demo meets all requirements.

#### Phase 1: The Must-Haves (*Our MVP*)

To align with the competition's submission requirements, our MVP and demo must showcase the core loop and key interactive features.

- The **AI search and module-building engine**.
- A **basic video dashboard** to display the curated videos.
- Simple **user accounts** to track progress for the current session.

**Phase 2: The Nice-to-Haves (Fast Follow-up)** This phase is focused on adding more features to enhance the learning and retention process.

- Adding a **quiz** after every module or at the end of the module.
- A **foundational version of AI-generated video summaries**.
- A simple version of the **Notebook**.
- The core **adaptive logic** for creating new modules when a user fails a quiz or indicates they are stuck.
- Smart Notebook features (e.g., tagging, search by keyword, export).
- Full personalization settings (themes, languages).
- Gamification elements (badges, streaks).

**\*\*The Big Trade-off:** : We are choosing to launch with the simplest possible version of our product that still provides core value: AI-powered video curation. It's more important to validate our central idea—that the AI can successfully transform a user's goal into a clear video path—than to have a perfect, feature-rich product on day one. We will first perfect the **core module creation loop**, then enhance the experience by adding summaries, notebooks, and adaptive learning features in Phase 2.

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## V. Success Metrics

Since we are not tracking user data, we will measure our success through direct, qualitative feedback and the product's performance in its intended context.

### We Will Know We're Successful When...

The core product experience is validated by users.

The product effectively showcases our core innovation.

### So We Will Measure Success By...

Positive qualitative feedback from user focus groups or direct interviews. We will show the demo to our target audience and ask them if the tool is useful and solves their core problem of finding a structured learning path.

The reception and evaluation of our demo at the competition. The ultimate measure of success for this phase is meeting all demo requirements and receiving a favorable review from the judges.

Our solution resonates with the target audience.

Anecdotal evidence of positive discussion. We will look for mentions and positive sentiment on social media, student forums, or in blog posts.

The product is easy to use and provides a seamless experience.

Observations of user behavior during a live demo. We will observe if users can easily navigate the app, set a goal, and find their curated video module without confusion.

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## VII. Appendices

### 1. References

- **Product Reference Documents:** Product Reference Documents

### 2. Contact Information

- Project Manager: **Jatin Nahata**
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- Team: **The Learning Engine**

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*"With this PRD, we have a clear blueprint to build a product that will revolutionize how students learn, empowering them to go from confused to confident. We are confident this strategic approach will result in a valuable and impactful tool."*

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