

Session 2: The AI Coder

CR South Dec 11 2025

Let's code an app with AI.

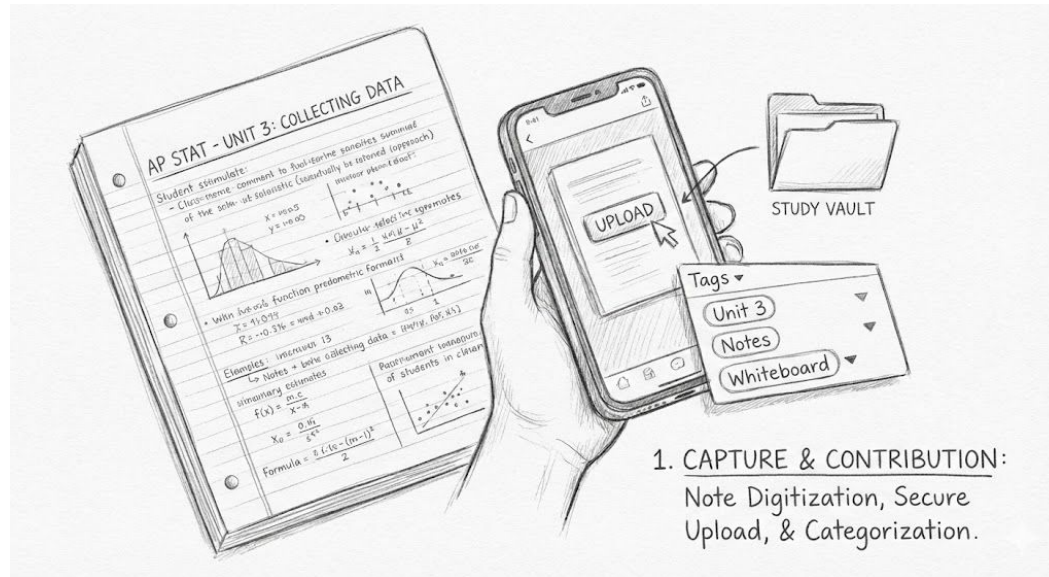
But first, let's start with the design.

What business would you like to build?

User Requirements

1. Capture & Contribution

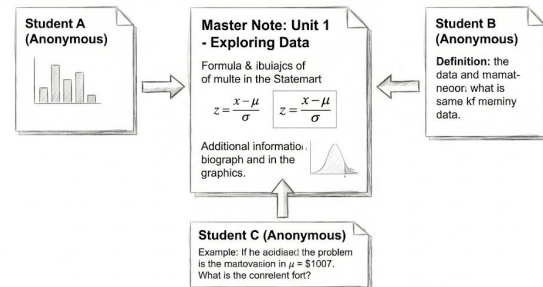
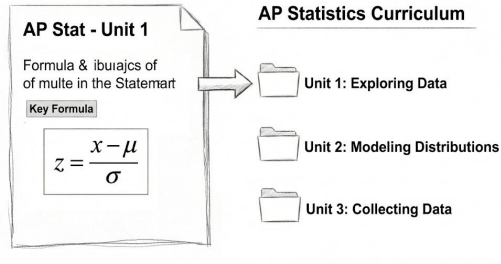
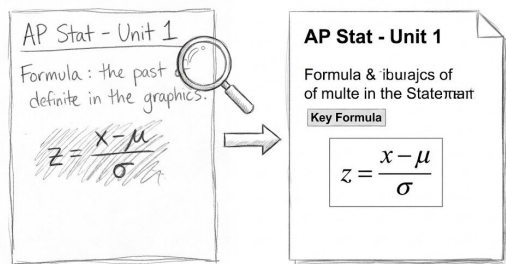
- **Note Digitization:** The student captures a clear image of their handwritten or digital classroom notes (e.g., a photo of a whiteboard or a notebook page).
- **Secure Upload:** The student uploads the file(s) to their personal "Study Vault" within the app.
- **Categorization:** The student tags the notes by AP Stat unit (e.g., *Unit 3: Collecting Data* or *Unit 6: Inference for Categorical Data*) to help the AI organize the context.



User Requirements

2. AI Knowledge Consolidation

- **OCR & Extraction:** The AI converts images/PDFs into searchable text, identifying key formulas, definitions, and teacher-specific examples.
- **Curriculum Mapping:** The system automatically cross-references the student's notes with the official **College Board AP Statistics** curriculum to categorize and arrange the notes in the right section
- **Peer Contextualization:** The AI (anonymously) compares and consolidates notes with that of other students to create a complete comprehensive note on what the teacher is teaching.



User Requirements

3. Interactive Learning (The "Chatbot Face")

- **Contextual Q&A:** The student asks questions directly to the chatbot, such as *"Explain the Central Limit Theorem using the example my teacher gave in class today."*
- **Natural Language Interaction:** The student can "talk" through a concept until it makes sense, with the AI acting as a 24/7 teaching assistant.

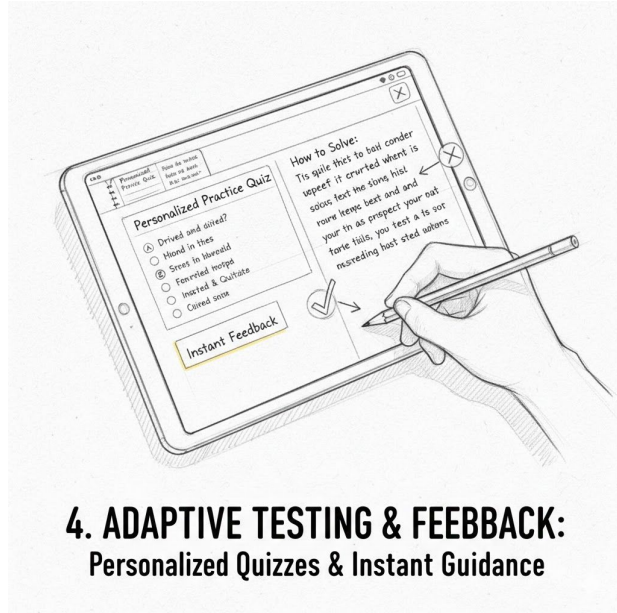


3. INTERACTIVE LEARNING:
Your 24/7 AI Teaching Assistant

User Requirements

4. Adaptive Testing & Feedback

- **Automatic Quiz Generation:** Once a note is processed, the AI generates a personalized practice quiz (Multiple Choice or Free Response) based specifically on those notes.
- **Instant Grading:** The student receives immediate feedback on their answers, with step-by-step "how-to" explanations for any missed questions.



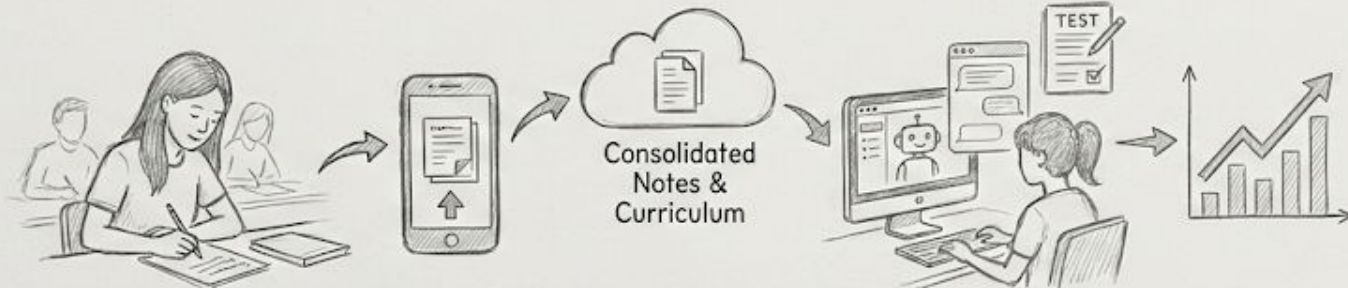
User Requirements

5. Progress & Benchmarking (The Dashboard)

- **Skill Mastery Tracking:** The student views a visual breakdown of their proficiency across all AP Stat units.
- **Percentile Benchmarking:** The student sees how their practice scores compare to the "global" average of other students using the app to prepare for the same exam.
- **Study Reminders:** The dashboard suggests which unit to review next based on where the student is currently "weakest."



5. PROGRESS & BENCHMARKING: Visual Dashboard & Smart Study Plan



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How It Works

1. Student takes notes in class
2. Upload image of notes to app
3. Notes consolidated with others & AP curriculum
4. Interact with Chatbot, take tests, get answers
5. See progress on Dashboard

Features

Notes-Based Practice

Adaptive Quizzing

Global Tutors