📌 Revised Project Scope: AI Study Buddy & Well-Being Assistant

Instead of a fully-fledged AI learning system and chatbot, we'll develop a lightweight AI-powered assistant that provides:

AI-Powered Study Companion

Summarizes notes & textbooks using OCR & AI.

Generates quizzes & flashcards from uploaded notes.

Simple AI-Based Well-Being Assistant

Provides motivational messages & stress relief exercises based on sentiment detection.

Quick-access study tips & break reminders.

📌 Key Technologies:

✅ Google Cloud Vision API (OCR for extracting text from images)

✅ Google AI (Gemini API / TensorFlow Lite) (for AI-generated summaries & quizzes)

✅ Google Firebase (backend for saving user data & chat history)

✅ Google Dialogflow (for AI chatbot responses)

⚙️ MVP Features (What We Will Build in 1 Week)

🌟 1. Study Helper (AI-Powered Summarizer & Quiz Generator)

📌 Core Functionality:

User uploads textbook images or lecture notes.

Google Cloud Vision API extracts text from images.

AI summarizes the content into bullet points.

AI generates quizzes & flashcards from the content.

📌 Development Tasks: ✔ Implement Google Cloud Vision API for OCR.

✔ Use AI model (Google Gemini API or Firebase ML Kit) to generate summaries.

✔ Convert text into MCQs (Multiple Choice Questions) using a predefined prompt.

✔ Display quizzes & flashcards in a simple UI.

🩺 2. AI-Powered Well-Being Assistant

📌 Core Functionality:

Users chat with the AI when feeling stressed.

AI detects sentiment (positive, neutral, or negative).

If the student is stressed, the AI suggests study breaks, relaxation exercises, or motivational tips.

📌 Development Tasks: ✔ Integrate Google Dialogflow for simple chatbot responses.

✔ Implement sentiment analysis using Firebase ML Kit (for basic emotional detection).

✔ Provide motivational messages & relaxation tips based on sentiment.

extra note: AI tutor have the wellbeing functionality