

Project Report

Title of Project:

Note generator

Name of the Innovator:

Shristy Gupta

Start Date:

11/02/26

End Date:

18/02/26

Day 1: Empathise & Define

Step 1: Understanding the Need

Which problem am I trying to solve?

Students struggle to create well-structured ,organized notes from textbooks, lectures, and online content .manual note making is time consuming and often unstructured

Who is affected by this problem?

School students
College students (especially exam-preparing students)
Competitive exam aspirants
Students with weak summarizing skills

How did I find out about this?

Online Research, Observation, Interviews, AI Tools

Step 2: Problem Statement

Students need an intelligent system that converts raw topic input into well-structured, customizable study notes in multiple formats to improve understanding and revision efficiency.

Why is this problem important to solve?

Saves time
Improves clarity
Boosts exam performance
Encourages organized learning

Take-home task insights:

Structure matters more than length.
Revision-friendly notes are more valuable than detailed notes.
Customization is key (different students prefer different formats).

Day 2: Ideate

Step 3: List at least 5 different solutions:

1. Basic text summarizer app.
2. AI-powered note formatter with multiple styles.
3. Flashcard generator from topics.
4. Mind-map only generator tool.
5. All-in-one Study Assistant (notes + flashcards + quizzes).

Step 4: My favourite solution:

AI-powered Notes Generator Web App with multiple note styles and revision mode.

Step 5: Why am I choosing this solution?

Combines flexibility + intelligence.
Practical for daily use.
Technically achievable in short time.
Uses modern AI integration.

Day 3: Prototype & Test

Step 6: What will my solution look like?

A web application built with:
React.js frontend
Tailwind CSS UI
Gemini API for AI-generated notes
LocalStorage for saving notes

What AI tools will I need?

Gemini API for:
Structuring notes
Highlighting key terms
Creating memory tricks
Generating revision questions

Selected AI tools:

1. React.js
2. Tailwind CSS
3. Gemini API
4. LocalStorage
5. VS code

Step 7: Test - Getting Feedback

Who did I share my solution with?

2–3 classmates Self-testing with different subjects: Biology Computer Science History

What works well:

Fast note generation
Clean UI
Multiple formats supported
Revision questions auto-generated

What needs improvement:

- Add PDF export
- Add dark mode
- Improve mind-map visualization
- Add authentication for cloud storage

Day 4: Showcase

Step 8: Final Project Title:

Smart AI Notes Generator

1-Minute Pitch Summary:

Smart AI Notes Generator is an educational web app that transforms raw topics or content into structured, customizable study notes using AI. Students can select formats like Cornell, Outline, or Mind Map, choose detail levels, and generate quick revision versions. It saves time, improves clarity, and makes exam preparation smarter and faster."

Step 9: Reflections

What did I enjoy the most?

Designing the note formats and seeing how AI organizes messy content into clean study notes.

What was my biggest challenge?

Designing prompt structure for Gemini
Structuring mind map output
Handling API key security

Project Link:

https://lovable.dev/projects/caad53f5-21e5-454b-bf04-b45f5a547eeb?messageld=aimsg_01khn4x9yffetsfh9cjp555w3n