

# 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?messageId=aimsg\\_01khn4x9yffetsfh9cjp555w3n](https://lovable.dev/projects/caad53f5-21e5-454b-bf04-b45f5a547eeb?messageId=aimsg_01khn4x9yffetsfh9cjp555w3n)