

# SmartNotes AI – Task Tracking Document

Project Goal: Build a self-learning web app that converts student notes into summaries, short notes, exam-oriented questions, weak area analysis, and a personalized study roadmap.

## PHASE 0 – Project Setup

- ☐ Create GitHub repository
- ☐ Setup Python virtual environment
- ☐ Backend folder structure
- ☐ Initialize React frontend

## PHASE 1 – Notes Input (Frontend)

- ☐ Image upload support
- ☐ PDF upload support
- ☐ Drag & drop UI
- ☐ Image/PDF preview

## PHASE 2 – OCR Engine

- ☐ Install PaddleOCR
- ☐ Image preprocessing
- ☐ OCR FastAPI endpoint

## PHASE 3 – Text Cleaning & Structuring

- ☐ Remove OCR noise
- ☐ Detect headings and bullets
- ☐ Paragraph segmentation

## PHASE 4 – Summary Generator

- ☐ LLM integration
- ☐ Short summary
- ☐ Medium summary
- ☐ Long summary

## PHASE 5 – Question Generator

- ☐ MCQ generation
- ☐ Short answer questions
- ☐ Long answer questions

## PHASE 6 – Short Notes Generator

- ☐ Keyword extraction
- ☐ Bullet-based short notes

## PHASE 7 – Weak Area Detection

- ☐ Topic frequency analysis
- ☐ Weak topic identification

## PHASE 8 – Roadmap Generator

- ☐ Input parameter handling
- ☐ Day-wise roadmap generation

## PHASE 9 – Backend Integration

- ☐ Pipeline orchestration
- ☐ Database integration

## FINAL PHASE – Deployment & Polish

- ☐ UI polish
- ☐ Performance optimization
- ☐ Deployment
- ☐ Documentation and demo