

Smart College Assistant – Phase 1 Document 1. Opportunity Identification College students face challenges managing attendance, timetables, notes, reminders, and college updates. No unified intelligent platform exists to automate workflows and provide AI-based support. This creates an opportunity to build a Smart College Assistant with AI chat, timetable automation, notifications, document generation, and academic management. 2. Problem Definition Students struggle with scattered information across multiple platforms, leading to missed deadlines, poor organization, and inefficient communication. Faculty face difficulties addressing queries and managing schedules.

Problem Statement: Students and faculty lack a unified intelligent platform that automates academic tasks, improves communication, and provides AI-powered support within the college environment. 3.

Stakeholder Identification **Primary Stakeholders:** Students, Faculty, Administration

Secondary Stakeholders: Academic Departments, IT Support, Parents

External Stakeholders: Developers, Third-party APIs 4. Stakeholder Influence–Interest Matrix

Students – High interest, Medium influence

Faculty – High interest, High influence

Administration – Medium interest, Very high influence

IT Team – Medium interest, Medium influence

Parents – Low interest, Low influence

Developers – Medium interest, High influence

5. Opportunity Scope Phase 1: Research and stakeholder mapping

Phase 2: Prototype with UI and core features

Phase 3: MVP with attendance, notifications, analytics 6. Tools & Technologies App Development:

Python / Flutter / JavaScript

AI: OpenAI API

Database: SQLite / Firebase

Design: Figma, Canva

Version Control: GitHub 7. GitHub Repository Structure smart-college-assistant/

■■■ docs/

■■■ ui-designs/

■■■ backend/

■■■ frontend/

■■■ README.md