PROBLEM STATEMENT 16

AI DRIVEN STUDY PLANNER- PlanIt

PlanIt is an innovative AI-powered study planner designed to help students efficiently organize their study schedules while integrating mental health support and fostering collaboration. The platform provides personalized study plans, utilizes advanced study techniques, and encourages interaction through a community feature. It includes unique tools such as the Pomodoro Technique Timer with integrated doubt clarification chatbots, document-based AI explanations, mind map visualizations, and a supportive learning environment. Additionally, PlanIt emphasizes well-being with its mental health chatbot, offering students emotional and motivational support.

INNOVATION

- **Zeni** is a friendly, real-time chatbot that provides emotional support to help students manage stress, anxiety, and motivation, keeping them on track with their studies and creating a joyful, balanced learning experience.
- The Customizable Study Timetable Generator creates personalized study schedules based on students' syllabus, time, and goals. It allows students to adjust the timetable to fit their preferences and priorities for a balanced, effective routine.
- The Meditation Feature provides guided breathing exercises, mindfulness activities, and calming music to help students manage stress, improve focus, and maintain mental well-being during study sessions.
- The **Study Techniques** in PlanIt include the **Pomodoro Technique** for focused study sessions, **Mind Maps and Visualizations** to simplify complex concepts, and a **Chat with PDF** feature that allows students to interact with study materials for better understanding and clarification.
- The **Productivity Tracker** displays time spent and wasted in the form of graphs and bar charts, providing a clear visual representation of study habits. This helps students analyze their time management, identify areas for improvement, and optimize their study routine.
- **Community Integration**: Dedicated rooms for different subjects, resources, and discussions create a platform for students to share study materials, engage in discussions, and rate content based on quality.

FEASIBILTY

PlanIt combines **HTML, CSS, JavaScript** for the frontend, **Flask** backend, and **MongoDB/SQL** for data storage. AI features powered by **LLMs** and **GeminiAPI** handle document analysis, mind maps, and doubt clarification. Real-time tools like **Firebase** support the Pomodoro Timer and community interactions. **Figma** will design a dark-themed UI, creating a seamless, scalable platform for students.

POTENTIAL IMPACT:

PlanIt has the potential to transform student productivity and well-being. By providing personalized study plans and AI-driven learning tools, it helps students overcome challenges in organizing their studies, making learning more efficient and structured. The Pomodoro Technique Timer helps students manage focus and avoid burnout, while instant doubt clarification boosts learning confidence. The community features promote peer collaboration, and the mental health chatbot supports emotional well-being, helping students stay motivated, reduce stress, and maintain balance. This all-in-one approach can significantly improve both academic performance and mental health.