**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID30306 |
| Project Name | EduTutor AI: Personalized Learning with Generative AI and LMS Integration |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization Template:**

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference: <https://www.mural.co/templates/brainstorm-and-idea-prioritization>

**Step-1: Team Gathering, Collaboration and Select the Problem Statement**

**Problem Statement:**  
Students across different grades and backgrounds often face challenges in understanding concepts, solving problems, and accessing personalized guidance. There is a need for a smart educational assistant that can dynamically address subject-specific doubts, analyze homework, generate quizzes, and offer study plans based on student progress.  
**Team Collaboration:**  
Our team discussed the major challenges faced by students and educators. We gathered inputs from academic advisors, teachers, and students. The consensus was to create a unified AI-powered tutor that integrates with LMS systems and supports multiple subjects.

Graphical user interface, application

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**Step-2: Brainstorm, Idea Listing and Grouping**

Idea Listing:  
• AI Tutor that answers student doubts using the IBM Granite model.  
• Homework analysis feature that provides feedback and step-by-step solutions.  
• Quiz generator that allows students to self-assess.  
• Study plan creator based on selected topic, subject, and timeline.  
• Progress tracking dashboard with analytics for improvement.  
  
Grouping:  
• AI Tutoring → Model Integration & Prompt Engineering  
• Homework & Quiz → Evaluation & Feedback Systems  
• Study Plans & Progress → Adaptive Learning Engine

Graphical user interface, treemap chart

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**Step-3: Idea Prioritization**

Priority Ideas Selected:  
1. AI-powered dynamic doubt solving (High Impact, Immediate Value)  
2. Comprehensive homework analyzer (Medium-Term Value, High Engagement)  
3. Quiz generation and evaluation (Quick wins, Essential for self-assessment)  
4. Study plan creator with time estimates (Medium-Term, Sustained Learning)  
5. Student progress tracking with analytics (Long-Term Value, Personalization)  
  
We prioritized based on student impact, ease of implementation, and integration value with LMS.

**Diagram

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