# Ideation Phase

## Brainstorm & Idea Prioritization Template – EduTutor AI

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID31398 |
| Project Name | EduTutor AI: Personalized Learning with Generative AI and LMS Integration |
| Maximum Marks | 4 Marks |

### Brainstorm & Idea Prioritization Template Overview

Brainstorming allows collaborative ideation, focusing on solving educational challenges through AI. In this EduTutor AI project, we explored key use cases, technical solutions, and value propositions. Our brainstorming sessions helped refine four practical and innovative scenarios leveraging IBM Watsonx, Granite LLM, and Google Classroom.

### Step 1: Team Gathering, Collaboration & Problem Identification

🧠 Team Activity:

* - Lack of personalization in online learning  
  - Difficulty tracking student progress in real-time  
  - Educator burden in creating content  
  - Gaps in curriculum alignment

📌 Problem Statement:

"How might we design an AI-powered platform that personalizes learning, simplifies assessment, and integrates seamlessly with existing LMS systems?"

🔑 Key Brainstorming Rules:

* - Encourage wild ideas  
  - Go for volume  
  - One conversation at a time  
  - Stay focused on the topic  
  - Be visual (if possible)  
  - Defer judgment

### Step 2: Idea Listing & Grouping

💡 Idea Collection (sample):

* - Dynamic quiz generation using Granite LLM  
  - Instant evaluation & feedback with Watsonx  
  - Real-time student insights via Pinecone  
  - Course sync using Google Classroom API  
  - Adaptive testing via diagnostic assessments  
  - Modular LMS design for scale

📂 Grouped Themes:

* - Personalization  
  - Educator Tools  
  - Data-Driven Insights  
  - LMS Integration

### Step 3: Idea Prioritization

📊 Prioritization Matrix:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Low | Medium | High |
| Low | - | Basic UI Design | - |
| Medium | - | Google Classroom Sync | Educator Dashboard |
| High | - | Adaptive Quiz System | Granite-Based Quiz Generation |

* - High Feasibility & Importance: ✅ Proceed  
  - Medium Feasibility/Importance: 🔄 Consider  
  - Low Feasibility/Importance: ❌ Avoid for MVP