



Ideation Phase

Brainstorm & Idea Prioritization Template – EduTutor AI

 Date: 26 June 2025

 Team ID: LTVIP2025TMID33995

 Project Name: EduTutor AI: Personalized AI-Powered Learning Platform

 Maximum Marks: 4 Marks

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.

☒ Step 1: Team Gathering, Collaboration, and Problem Statement Selection

Problem Statement Chosen:

Current online education platforms lack personalization, real-time feedback, and integration with modern AI technologies. Students are often overwhelmed with generic content, and educators lack tools to track individual progress effectively. There is a need for a system that adapts learning paths using AI, integrates with platforms like Google Classroom, and enables real-time quiz-based evaluation.

Goal:

Build a personalized AI-powered tutoring platform using IBM WatsonX, Pinecone, and Google OAuth, that allows:

- Students to take dynamically generated quizzes.
- Educators to track performance analytics.
- Seamless integration with Google Classroom.

☒ Step 2: Brainstorm, Idea Listing, and Grouping

Category	Idea
Personalization	Adaptive quizzes based on student performance
Integration	Google Login + Classroom API integration
Feedback	Real-time quiz evaluation and progress dashboard

Storage	Use Pinecone for quiz history and vector-based student profiling
UI/UX	Streamlit-based frontend for both student and educator panels
AI Technology	IBM WatsonX for quiz generation using Granite models
Expansion Ideas	Add support for learning recommendations based on weak topics
Engagement	Gamification (leaderboard, streaks, badges)
Accessibility	Mobile responsive design with speech support (future enhancement)

☑ Step 3: Idea Prioritization

Priority	Idea	Justification
High	AI-generated personalized quizzes using IBM WatsonX	Core feature—provides educational value and personalization
High	Google OAuth login & Classroom sync	Simplifies access and links with existing educational tools
High	Pinecone-powered quiz history and analytics	Enables performance tracking and smart feedback
Medium	Student & Educator dashboards with Streamlit	Important for usability, progress visibility
Medium	Gamification (streaks, leaderboard)	Boosts engagement but not critical to MVP
Low	Speech-to-text accessibility features	Valuable for inclusivity, but not essential in initial version
Low	Recommendation engine based on performance trends	Future scope after MVP is validated