**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| --- | --- |
| Date | 20 June 2025 |
| Team ID | LTVIP2025TMID31922 |
| Project Name | Edu Tutor AI-Personalized Learning with Generative AI |
| 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.

After listing and grouping potential features, the team evaluated them based on **feasibility** (how easily it can be built) and **impact** (how useful it will be to the users). This helped finalize what would go into the MVP (Minimum Viable Product) for the project.

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

**👥 Team Formation**

The team was formed with a shared interest in educational technology and artificial intelligence. Members collaborated virtually through messaging apps and online meetings. Each member brought a unique skillset to the group:

| **Name** | **Role** | **Strengths** |
| --- | --- | --- |
| CHALLA RAGHAVENDRA | Team Leader | Full-stack AI development, coordination |
| ULLIKANTI KHALEEL AHMAD | Backend Developer | Quiz logic, prompt design |
| SIRASANI JANARDHAN REDDY | UI/UX Designer | Interface design using Gradio |
| GAJAVALLI MANIDHAR | Tester/Validator | App testing, user feedback integration |

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

After selecting the core problem, the team engaged in multiple brainstorming sessions to explore innovative solutions and functionalities that could address the challenge effectively.

**💡 Raw Idea Listing**

Each member contributed feature ideas based on user needs, personal learning experience, and current EdTech trends.

| **Feature Idea** | **Source / Contributor** |
| --- | --- |
| AI tutor to explain difficult concepts | CHALLA RAGHAVENDRA |
| Topic-based quiz generator | ULLIKANTI KHALEEL AHMAD |
| Upload a PDF and generate questions | SIRASANI JANARDHAN REDDY |
| Track student progress over time | GAJAVALLI MANIDHAR |
| Register/login with user roles (Student/Teacher/Admin) | Full team |
| Simplified explanations for age levels | CHALLA RAGHAVENDRA |
| Voice output for visually challenged learners | ULLIKANTI KHALEEL AHMAD (future scope) |
| Integration with Google Classroom | SIRASANI JANARDHAN REDDY (future scope) |

**Step-3: Idea Prioritization**

After listing and grouping potential features, the team evaluated them based on **feasibility** (how easily it can be built) and **impact** (how useful it will be to the users). This helped finalize what would go into the MVP (Minimum Viable Product) for the project.

**📊 Feature Prioritization Matrix**

| **Feature** | **Feasibility (1–5)** | **Impact (1–5)** | **Priority** |
| --- | --- | --- | --- |
| AI Tutor for concept explanation | 5 | 5 | ✅ Must-have |
| Topic-based quiz generator | 5 | 5 | ✅ Must-have |
| PDF upload and quiz generator | 4 | 5 | ✅ Must-have |
| Progress tracker | 4 | 4 | ✅ Important |
| Registration & login system | 5 | 4 | ✅ Must-have |
| Age-based explanation | 3 | 4 | 🔄 Optional |
| Google Classroom integration | 2 | 5 | ⏳ Future |
| Voice interaction (Text-to-Speech) | 3 | 3 | ⏳ Future |