**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

| Date | 30 July 2025 |
| --- | --- |
| Team ID | PNT2025TMID09555 |
| Project Name | The Roadmap Generator |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization Template:**

### **1. 🔍 Problem Statements (Identified Challenges)**

| **Problem ID** | **Problem Description** |
| --- | --- |
| P1 | Lack of personalized learning paths for individuals |
| P2 | Learners are overwhelmed by unstructured online content |
| P3 | No centralized system for tracking roadmap progress |
| P4 | Traditional learning tools lack AI adaptability |
| P5 | Manual creation of roadmaps is inefficient |
| P6 | Quality roadmaps are often behind paywalls |

**2. 💡 Idea Pool (Raw Brainstormed Ideas)**

| **Idea ID** | **Idea Description** |
| --- | --- |
| I1 | Use LLaMA2 to generate custom learning roadmaps based on user skill input |
| I2 | Suggest free resources (YouTube, Coursera, GitHub, etc.) dynamically |
| I3 | Provide timeline-based milestones for progress tracking |
| I4 | Create a user-friendly frontend with Streamlit |
| I5 | Allow exporting roadmap to PDF or calendar sync |
| I6 | Enable bookmarking or favoriting certain resources |
| I7 | Include feedback loop where users can rate the roadmap |

### **3. 🔎 Idea Prioritization Matrix**

| **Idea ID** | **Value (1–5)** | **Feasibility (1–5)** | **Total Score** | **Priority** |
| --- | --- | --- | --- | --- |
| I1 | 5 | 4 | **9** | ⭐ High |
| I2 | 5 | 4 | **9** | ⭐ High |
| I3 | 4 | 3 | 7 | Medium |
| I4 | 5 | 5 | **10** | ⭐⭐ Critical |
| I5 | 3 | 2 | 5 | Low |
| I6 | 3 | 3 | 6 | Medium |
| I7 | 4 | 3 | 7 | Medium |

✅ *Value* = Impact for the user  
✅ *Feasibility* = How easy/fast it is to implement  
✅ Prioritize **High Value + High Feasibility**

### **4. ✅ Top 3 Selected Ideas**

1. **I4**: Build a web-based frontend using Streamlit
2. **I1**: Use LLaMA2 to generate custom skill roadmaps
3. **I2**: Include free, trusted learning resources in the output