

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	31 January 2025
Team ID	LTVIP2025TMID36326
Project Name	Smart SDLC AI Assistant
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.

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>

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

The team identified the problem: Software developers and small teams need an AI-powered tool to automate SDLC tasks and improve efficiency.

0.2 Step-2: Brainstorm, Idea Listing and Grouping

- AI Requirement Analyzer: Convert plain English requirements into structured modules.
- Multilingual Code Generator: Generate code in Python, Java, C++, etc.
- Test Case Generator: Automatically create test cases from input code.
- Bug Finder & Fixer: Detect and fix code errors with explanations.
- Code Summarizer: Provide concise summaries of code functionality.
- Text to Code Generator: Build working code from simple text descriptions.
- Chatbot Assistant: Answer SDLC and development-related queries.

0.3 Step-3: Idea Prioritization

The team prioritized features based on impact and feasibility:

1. AI Requirement Analyzer

2. Multilingual Code Generator
3. Test Case Generator
4. Bug Finder & Fixer
5. Code Summarizer
6. Text to Code Generator
7. Chatbot Assistant