

IdeationPhase

Brainstorm & Idea Prioritization Template

Date	25 JUNE 2025
Team ID	LTVIP2025TMID59527
Project Name	Smart SDLC- AI Enhanced Software Development LifeCycle
Maximum Marks	4Marks

2.3 Brainstorming

During the ideation sessions, the team used structured brainstorming to generate innovative and feasible solutions. Below are key ideas that emerged across technical, user-experience, and strategic dimensions:

◆ Functional Ideas:


- AI-driven requirement extraction from PDFs using NLP (Natural Language Processing).
- Code generation engine based on prompt + language + framework selection.
- Automated test case generation (unit, integration, E2E).
- Natural language chat assistant to resolve developer queries instantly.
- “Explain this code” feature for knowledge transfer and junior onboarding.

◆ Technical Ideas:

- Use IBM Granite Model for local, offline inference without API calls.
- Use Streamlit for interactive UI and modular integration.
- Enable PDF parsing with PyMuPDF for versatile requirement input.
- Deploy with ngrok to provide shareable URLs for team demos without full deployment.

◆ Experience & UI Ideas:

- Sidebar navigation for clean interaction flow.
- Option to download generated code/tests/requirements as .md or .txt files.
- Drag-and-drop PDF upload for non-technical users.
- Mobile-friendly layout for demoing during team stand-ups.



Brainstorm & idea prioritization

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.

🕒 10 minutes to prepare
🕒 1 hour to collaborate
👤 2-8 people recommended

➔

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

A Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

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1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

PROBLEM

How might we [your problem statement]?

Key rules of brainstorming

To run a smooth and productive session

➕ Stay in topic.

➕ Defer judgment.

🗣️ Go for volume.

💡 Encourage wild ideas.

👂 Listen to others.

👁️ If possible, be visual.

Step-3: Brainstorm, Idea Listing and Grouping

◆ Business/Strategic Enhancements:

- Add enterprise compliance checks during code generation (e.g., security headers, input sanitization).
- Offer industry-specific templates (e.g., healthcare, e-commerce, banking).
- Version tracking and logging of generated outputs.
- Export capability to integrate outputs with project management tools (e.g., JIRA, Trello).

◆ Final Shortlisted Features:

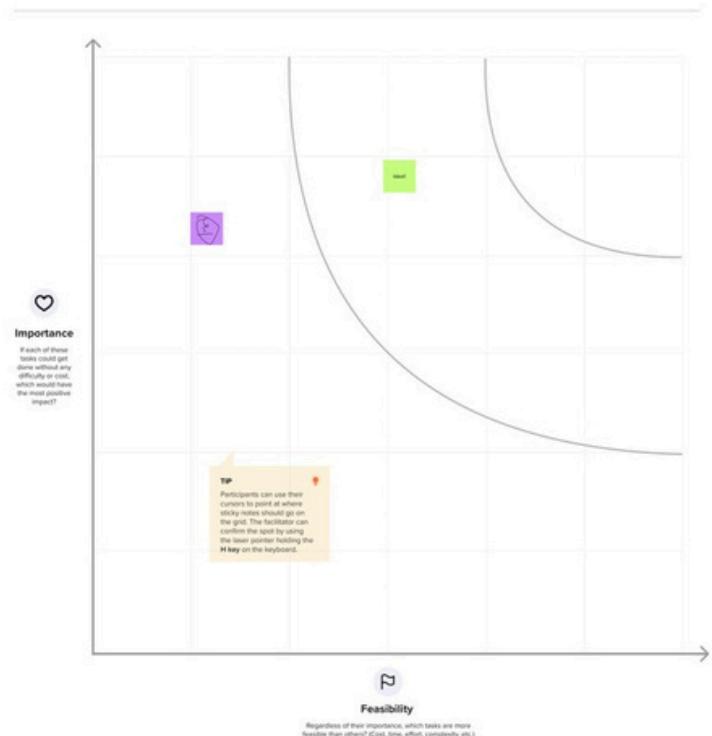
- Local model-based processing (Security First).
- Prompt + file-based requirement analyzer.
- Multi-language, multi-framework code generation.
- AI Assistant with enterprise context.
- Automated test generation from requirements or code.

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



Step-2: Idea Prioritization

2

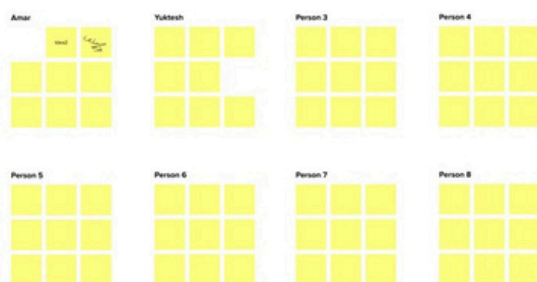
Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP

You can select a sticky note and hit the pencil icon to start drawing!



3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

