Ideation Phase
Brainstorm & Idea Prioritization Template

Date	31 January 2025
Team ID	LTVIP2025TMID33968
Project Name	SmartSDLC-AI-Enhanced Software Development Lifecycle
Maximum Marks	4 Marks

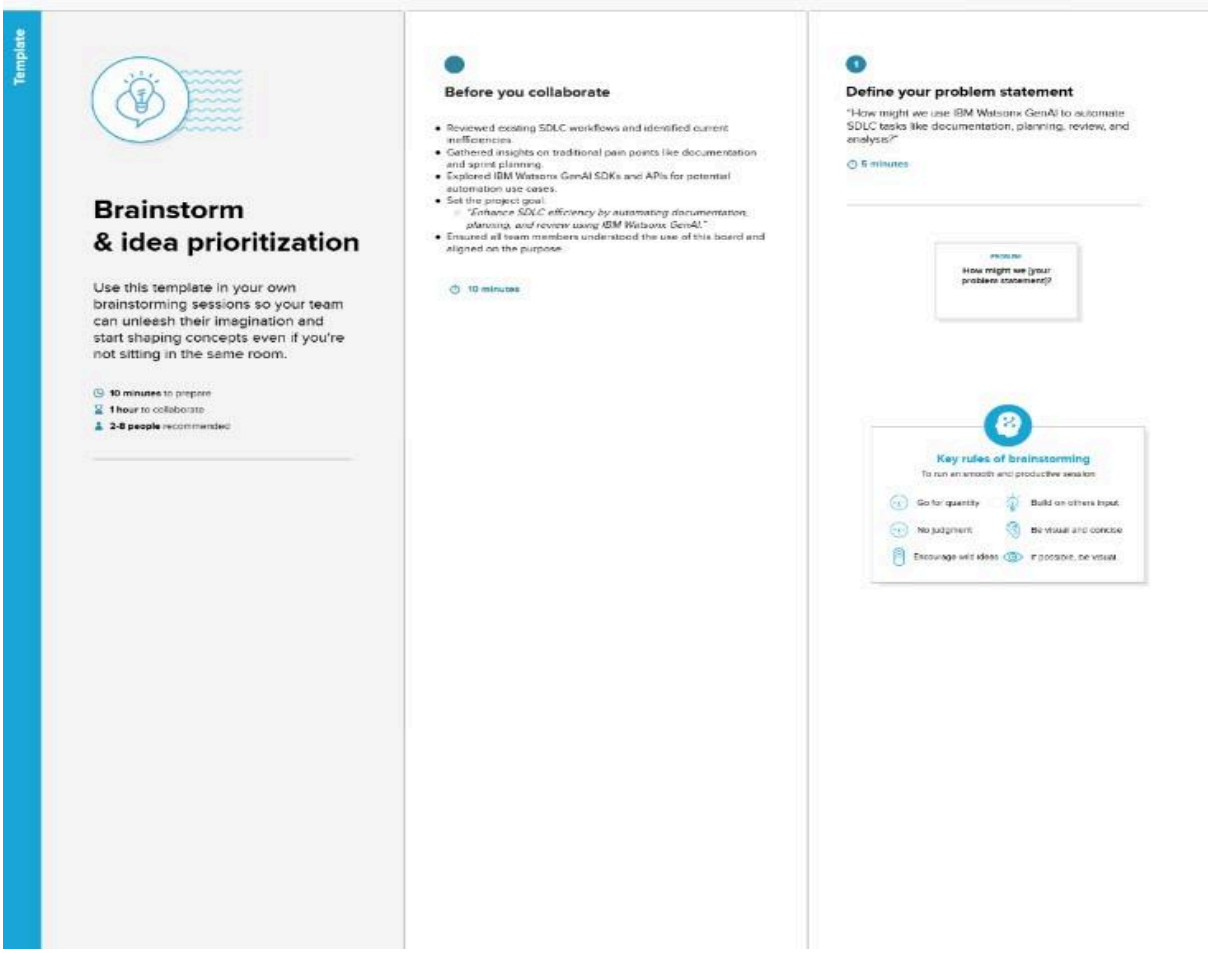
Brainstorm & Idea Prioritization Template:

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.

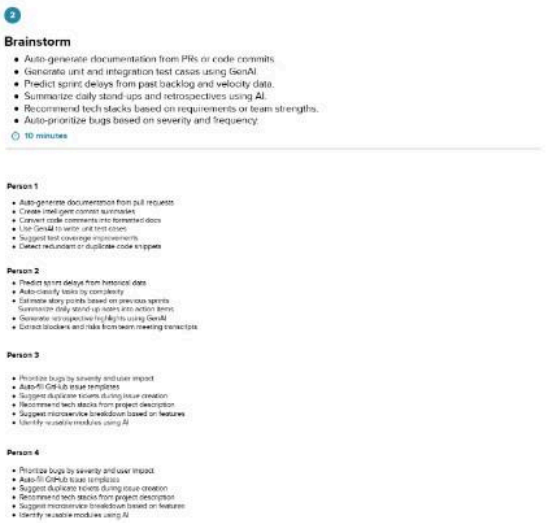
Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference:https://app.mural.co/t/smartsdlcproject1965/m/smartsdlcproject1965/1750999138951/7035321504b2bd60d1671b77aebc95996dbd5b99?sender=u25e5d968bf04dfe4aca44245

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



Step-2: Brainstorm, Idea Listing and Grouping



2

Brainstorm

- Auto-generate documentation from PRs or code commits
- Generate unit and integration test cases using GenAI
- Predict sprint delays from past backlog and velocity data.
- Summarize daily stand-ups and retrospectives using AI.
- Recommend tech stacks based on requirements or team strengths.
- Auto-prioritize bugs based on severity and frequency.

10 minutes

Person 1

- Auto-generate documentation from pull requests
- Create intelligent commit summaries
- Convert code comments into formatted docs
- Use GenAI to write unit test cases
- Suggest test coverage improvements
- Detect redundant or duplicate code snippets

Person 2

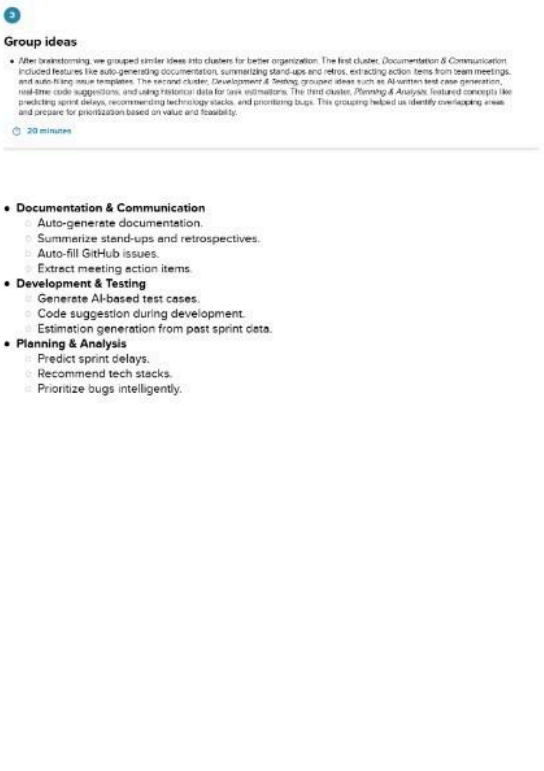
- Predict sprint delays from historical data
- Auto-classify tasks by complexity
- Estimate story points based on previous sprints
- Summarize daily stand-up notes into action items
- Generate retrospective highlights using GenAI
- Extract blockers and risks from team meeting transcripts

Person 3

- Prioritize bugs by severity and user impact
- Auto-fill GitHub issue templates
- Suggest duplicate tickets during issue creation
- Recommend tech stacks from project description
- Suggest microservice breakdown based on features
- Identify reusable modules using AI

Person 4

- Prioritize bugs by severity and user impact
- Auto-fill GitHub issue templates
- Suggest duplicate tickets during issue creation
- Recommend tech stacks from project description
- Suggest microservice breakdown based on features
- Identify reusable modules using AI



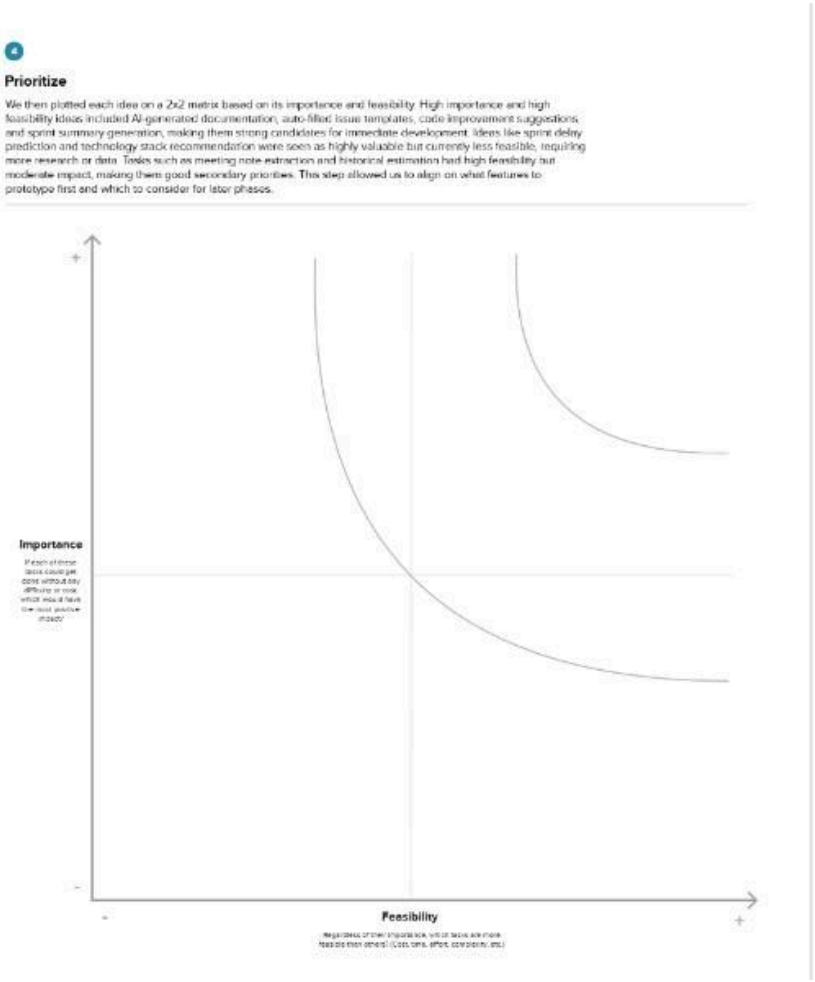
3

Group ideas

- After brainstorming, we grouped similar ideas into clusters for better organization. The first cluster, *Documentation & Communication*, included features like auto-generating documentation, summarizing stand-ups and retros, extracting action items from team meetings, and auto-filling issue templates. The second cluster, *Development & Testing*, grouped ideas such as AI-written test case generation, real-time code suggestions, and using historical data for task estimations. The third cluster, *Planning & Analysis*, featured concepts like predicting sprint delays, recommending technology stacks, and prioritizing bugs. This grouping helped us identify overlapping areas and prepare for prioritization based on value and feasibility.

20 minutes

- **Documentation & Communication**
  - Auto-generate documentation.
  - Summerize stand-ups and retrospectives.
  - Auto-fill GitHub issues.
  - Extract meeting action items.
- **Development & Testing**
  - Generate AI-based test cases.
  - Code suggestion during development.
  - Estimation generation from past sprint data.
- **Planning & Analysis**
  - Predict sprint delays.
  - Recommend tech stacks.
  - Prioritize bugs intelligently.



Step-3: Idea Prioritization