

Ideation Phase

Empathize & Discover

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| Date | 25 Aug 2025 |
| Team ID | NM2025TMID11404 |
| Project Name | SmartSDLC – AI-Enhanced Software Development Lifecycle |
| Maximum Marks | 4 Marks |

Empathy Map

User Persona:

A Computer Science Student / Entry-Level Developer working on academic or startup-level software projects using SDLC.

| Section | Insights |
|---------|--|
| Says | "I don't know how to begin the software development lifecycle." "Creating test cases and documentation manually is time-consuming." "I wish I had something that could guide me step-by-step." |
| Thinks | "Will I be able to complete this project within the deadline?" "What if I make a mistake in the requirement or testing phase?" "Others seem to do it faster — am I missing something?" |
| Does | Spends hours browsing online for templates and tutorials. Relies on copy-paste coding without understanding the SDLC. Uses random tools or none at all for requirement and test case generation. |
| Feels | Overwhelmed by documentation and coding workload. Stressed about meeting academic or client expectations. Unconfident in producing quality output through proper SDLC. |

Summary Insight:

The target user struggles to follow the structured SDLC process due to lack of practical tools and time constraints. They desire a guided, AI-enhanced solution that helps them learn and implement SDLC phases efficiently with automation support.