

Ideation Phase

Define the Problem Statements

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID32976 |
| Project Name | EduTutor AI: Personalized Learning with Generative AI and LMS Integration |
| Maximum Marks | 2 Marks |

Customer Problem Statement EduTutor AI:

In today's fast-paced education system, students often face the challenge of understanding complex subjects without proper guidance. Many rely on online resources, but these are often generic, not personalized to the learner's pace or style. Meanwhile, educators are overwhelmed with the repetitive task of creating and evaluating quizzes manually for every student.

EduTutor AI aims to solve this by offering a personalized AI tutor that provides:

- Concept explanations simplified for different age levels
- Grammar and language learning support in English and Hindi
- Automated quiz and test generation from PDFs and topics

This solution empowers students to learn at their own pace with clarity, and enables educators to scale personalized learning experiences without increased workload.

| | |
|---------------------|---|
| I am | A high school or college student preparing for competitive exams or internal assessments. I am tech-savvy, self-driven, but often lack access to quality personal tutors or learning support. |
| I'm trying to | Understand difficult subjects like Generative AI, Math, or English grammar on my own and prepare effectively for upcoming quizzes and exams. |
| But | I struggle to find clear explanations, quality practice material, or feedback that helps me know what I'm doing right or wrong. Generic online content doesn't adapt to my needs. |
| Because | Traditional learning systems are one-size-fits-all. Teachers have limited time and cannot offer one-on-one support. Also, many apps don't allow uploading my material to get personalized help. |
| Which makes me feel | Anxious and demotivated, especially when I get stuck or perform poorly in tests. It feels like I'm not learning the right way, and I fear being left behind. |

Example:

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| I am | I'm trying to | But | Because | Which makes me feel |
| a student preparing for exams and trying to learn complex topics independently | understand subjects like Generative AI, grammar, or math on my own, and generate practice quizzes | I struggle to get personalized explanations or useful feedback | most online tools are generic, not tailored to my learning needs, and educators don't have time to provide one-on-one guidance | confused, stressed, and uncertain about my preparation |

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|---|--|--|--|---|
| PS-1 | a high school student preparing for exams | understand difficult topics and revise efficiently | I can't grasp the concepts fully and get no feedback | online resources are generic and teachers are not always available | frustrated, confused, and unsupported |
| PS-2 | a teacher managing multiple students | generate personalized | I don't have time to prepare and evaluate tests for each student | manual creation and review takes too much effort | overwhelmed and limited in my teaching impact |