Edututor ai– Problem Statement Definition

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Team ID: LTVIP2025TMID34185

Project Name: Edututor ai
Maximum Marks: 2 Marks

Define the User

I am *A student who wants a personalized, efficient way to learn academic content, or an educator who needs real-time insights to support students—but both struggle with generic learning tools and time-consuming manual evaluations.*

Attributes

- Digital-native students and hybrid learners

- Teachers juggling large class sizes with diverse learning needs

- Limited time for personal attention or grading

- Varying levels of tech access or support

2 User Goals & Barriers

Section	Description
I'm trying to	Learn at my own pace or help students master topics effectively with data-backed insight
But	Current tools are rigid, assessments are one-size-fits-all, and insights are delayed
Because	Lack of automation, outdated LMS features, and missing AI personalization
Which makes me feel	Overwhelmed, unseen, and underprepared to achieve learning outcomes

3 Example Problem Statements

PS-ID	I am (User)	I'm trying to	But	Because	Which makes me feel
PS-1	High school student	Prepare for an upcoming math exam	Quizzes feel too generic	The LMS doesn't personalize content	Unmotivated
PS-2	School teacher	Identify which students are falling behind	No easy way to view topic-level data	Traditional dashboards lack granularity	Frustrated

PS-ID	I am (User)	I'm trying to	But	Because	Which makes me feel
PS-3	College student	Study topics aligned with my syllabus	Too many distractions, no study roadmap	No adaptive quiz or learning engine	Lost

4 Key Insights for EduTutor AI

Pain Points to Address

- One-size-fits-all content
- Delayed feedback and manual assessment burden
- No clear visibility into learning gaps
- Poor LMS integration across systems

Emotional Impact

- Empower students → Build ownership of learning
- Support teachers → Reduce overwhelm and decision fatigue
- Improve feedback loop → Boost confidence and outcomes

5.Steps

Insight / Barrier	EduTutor AI Feature Mapping
Generic quiz content	➤ Dynamic quiz generation via Granite LLM
Slow feedback for students	➤ Instant performance analytics with real-time scoring
Lack of syllabus alignment	➤ Google Classroom integration to sync curriculum
Educator insights missing	➤ Pinecone-powered dashboards for topic-level mastery tracking

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