**Edututor ai– Problem Statement Definition**

**Date: 09 September 2025  
Team ID:** **NM2025TMID00826**

**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| **Because** | Lack of automation, outdated LMS features, and missing AI personalization |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-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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