

User Acceptance Testing (UAT)

Date	26 JUNE 2025
Team ID	LTVIP2025TMID29388
Project Name	Edu-Tutor AI: Personalized Learning with Generative AI and LMS Integration
Maximum Marks	

Project Overview:

Project Name: Edu-Tutor AI

Project Description: Edu-Tutor AI is a personalized education assistant that uses IBM's Granite 3.3 2B Instruct model to generate AI-driven study content such as summaries, explanations, and lesson plans. Integrated via Gradio, this platform supports learner engagement through natural topic input and adaptive output generation.

Project Version: v1.0

Testing Period: 24-06-2025 to 26-06-2025

Testing Scope:

Features and Functionalities to be Tested

- Topic-based input prompt
- AI-generated learning content
- Responsive UI for students
- Real-time output display
- Error handling for invalid/empty inputs

User Stories or Requirements to be Tested

- As a student, I want to enter a topic and receive a meaningful explanation.
- As a user, I want the app to work smoothly even under multiple queries.
- As a tester, I want to validate model response time and content relevance.

Testing Environment:

URL/Location: <https://c9add294c4584e54b5.gradio.live/>

Credentials (if required): No login required

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Valid topic input	Enter "Photosynthesis" in topic field → Click Generate	AI generates accurate and clear explanation about photosynthesis	Output includes correct explanation with clarity and relevance	Pass
TC-002	Empty input validation	Leave topic input blank → Click Generate	System should show an error or no output	No output returned (graceful handling)	pass
TC-003	Nonsense input test	Enter random text like "asdfgh123" → Click Generate	system should return generic or limited response	AI attempts to respond with partial relevance or fallback	pass
TC-004	Response time performance	Input valid topic → Measure time until full output	Output displayed within 3 seconds	Output returned in ~2.4 seconds	pass
TC-005	Concurrent usage test	Open app in 3 tabs → Enter different topics and generate simultaneously	App should respond without crashes or performance degradation	Stable performance in all tabs	pass

Bug Tracking:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	App does not return warning for blank input	Step 1: Open app → Step 2: Leave input empty → Click Generate	Low	Open	Add toast or message for better user feedback

Sign-off:

Tester Name: K RAVI CHANDRA

Date: 26-06-2025

Signature: RAVI

Notes:

- All test cases include both positive (valid inputs) and negative (invalid, blank) cases.
- Tester confirms app is usable, stable, and suitable for educational purposes.
- Recommended minor UI/UX improvements: error messages for invalid inputs.