Functional & Performance Testing EduTutor-AI

Model Performance Test

Date: 28 June 2025  
Team ID: LTVIP2025TMID31982  
Project Name: EduTutor-AI: Personalized AI Tutoring Platform  
Maximum Marks: 2

**Test Scenarios & Results**

| **Test Case ID** |  | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- | --- | --- |
| FT-01 |  | PDF/Image Upload | Upload valid and invalid academic content | Valid content processed, errors shown for invalid files | PDFs and images parsed correctly; invalid ones rejected | Pass |
| FT-02 |  | Text Extraction & OCR | Upload a handwritten or scanned document | Extracted clear readable text | OCR returned accurate results with minimal noise | Pass |
| FT-03 |  | AI Q&A Engine | Ask academic questions from various subjects | Answer generated within 3–4 seconds | AI gave accurate responses in ~2.6 seconds | Pass |
| FT-04 |  | Summary Generator | Upload academic topic and request summary | Return structured, concise summary | Well-formed summaries generated | Pass |
| PT-01 |  | Response Time for Queries | Time from prompt submission to AI answer | Under 4 seconds | Avg. time ~2.3 seconds | Pass |
| PT-02 |  | Concurrent Sessions | Multiple students using different modules | No lag or crash | Handled 6+ sessions simultaneously | Pass |
| PT-03 |  | Navigation State Retention | Switch modules and return | Retain previous inputs | Inputs and responses preserved across modules | Pass |