Model Performance Test

Date	18 Feb 2026
Team ID	LTVIP2026TMIDS64190
Project Name	LearnHub Your Center for Skill Enhancement
Maximum Marks	

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	User Registration Validation	Enter valid and invalid user details during registration	Valid inputs accepted, invalid inputs rejected with error message	As expected	Pass
FT-02	Login Authentication (JWT)	Enter correct and incorrect login credentials	Correct credentials generate token; incorrect credentials show error	As expected	Pass
FT-03	Role-Based Access Control	Attempt to access Admin/Teacher routes without proper role	Unauthorized access denied	Access restricted correctly	Pass
FT-04	Course Creation (Teacher)	Upload course with video sections	Course saved successfully with video URLs	Course added successfully	Pass
FT-05	Payment Verification	Attempt enrollment before and after payment	Enrollment allowed only after successful payment	Worked correctly	Pass
FT-06	Progress Tracking	Complete video section and check progress update	Section marked complete and progress updated	Progress updated correctly	Pass
FT-07	Certificate Generation	Complete all sections and download certificate	PDF certificate generated and downloaded	Certificate generated successfully	Pass
PT-01	API Response Time Test	Measure response time for course listing	Should respond under 2–3 seconds	1.8 seconds	Pass
PT-02	Concurrent User Test	Simulate multiple users accessing courses	System remains stable	No noticeable delay	Pass

PT-03	Video Load Test	Play course videos repeatedly	Videos load smoothly without crash	Stable playback	Pass
PT-04	Database Load Test	Insert multiple users and courses	Database handles data without failure	Stable performance	Pass