Functional & Performance Testing

Model Performance Test

Date	02.04.2025
Team ID	SWTID1743161557
Project Name	Online Complaint Registration and Management System (OCRMS)
Program	Full Stack Developement MERN_VIT

Test Scenarios & Results

A. Functional Testing

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	User Login Functionality	Enter valid and invalid credentials	Valid users log in, invalid users get error	User successfully logged in and redirected to the dashboard	✔Pass
FT-02	Course Upload	Upload course material in different formats	Successfully uploads and displays files	File uploaded, but taking extra time to reflect	✔Pass
FT-03	Enrollment Process	Enroll a student in a course	Student is added to the course successfully	Enrolment successful but missing confirmation email	✔Pass
FT-04	File Download	Attempt to download course material	File downloads successfully	Download successful, file integrity verified	✔Pass
FT-05	Role-Based Access Control	Verify that different roles (Admin, Instructor, Student) have correct permissions	Access permissions work as expected	Access denied successfully	✔Pass

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B. Performance Testing

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
PT-01	Page Load Time (Dashboard)	1. Open - Dashboard page 2. Measure time taken for full load	Page should load within 2 seconds	1.8 seconds	✔Pass
PT-02	Concurrent User Load (5 Users)	1. Simulated 5 concurrent users logging in 2. Monitor server response	System should handle without crashes or slowdowns	Handles well, but minor delay for some users	✔Pass
PT-03	File Upload Speed (5MB File)	Upload a 5MB course file and Measure upload time	Upload should complete in under 5 seconds	Took 4.2 seconds	✔Pass
PT-04	API Response Time (Course List)	Send API request for course list and measured response time	Should return data in ≤2 seconds	1.6 seconds	✔Pass
PT-05	Database Query Performance	Fetched few enrolled students' data and measured execution time	Query should execute in ≤1 second	0.9 seconds	✔Pass