

5.4 Test Case

Project Name	Elearning Platform
Module Name	User Management Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-UM-001	User Registration	Verify new user registration with valid details	1. Navigate to registration page 2. Fill all required fields 3. Submit form	Name: John Doe, Email: john@example.com, Password: Test@123, Department: CS, College: ABC College, Mobile: 1234567890, CollegeID: CS123, DOB: 2000-01-01	<ul style="list-style-type: none">• OTP sent to email• Success message displayed	OTP received, account created successfully	Pass
TC-UM-002	User Registration	Verify registration with existing email	1. Navigate to registration 2. Enter existing email 3. Fill other details 4. Submit	Email: existing@example.com, Password: Test@123	<ul style="list-style-type: none">• Error message displayed• Registration prevented	"User Already exists" message shown	Pass

TC-UM-003	Email Verification	Verify email with correct OTP	1. Enter received OTP 2. Submit verification	OTP: 123456, Activation Token: valid_token	<ul style="list-style-type: none"> • Account activated • Success message 	Account activated successfully	Pass
TC-UM-004	Email Verification	Verify email with incorrect OTP	1. Enter wrong OTP 2. Submit verification	OTP: 000000, Activation Token: valid_token	<ul style="list-style-type: none"> • Error message displayed • Account not activated 	"Wrong OTP" message shown	Pass
TC-UM-006	User Login	Verify login with incorrect password	1. Enter correct email 2. Enter wrong password 3. Submit	Email: john@example.com, Password: wrongpass	<ul style="list-style-type: none"> • Error message displayed • Login prevented 	"Wrong Password" message shown	Pass
TC-UM-007	Password Reset	Verify forgot password request	1. Click forgot password 2. Enter email 3. Submit	Email: john@example.com	<ul style="list-style-type: none"> • Reset link sent • Success message 	Reset link sent to email	Pass
TC-UM-008	Password Reset	Verify password reset with valid token	1. Click reset link 2. Enter new password 3. Submit	Token: valid_token, Password: NewPass@123	<ul style="list-style-type: none"> • Password updated 	Password reset successful	Pass

					• Success message		
TC-UM-009	Profile Update	Verify profile information update	1. Access profile 2. Update details 3. Save changes	Name: John Updated, Mobile: 9876543210	<ul style="list-style-type: none"> • Profile updated • Success message 	Profile updated successfully	Pass
TC-UM-010	Session Management	Verify session timeout	1. Login 2. Wait for 15 days 3. Try to access protected route	Token: expired_token	<ul style="list-style-type: none"> • Session expired • Redirect to login 	Session expired, redirected to login	Pass

Project Name	Elearning Platform
Module Name	Course Management Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-CM-001	Course Creation	Verify new course creation by admin	1. Login as admin 2. Fill course details 3. Upload image 4. Submit	Title: Web Development, Description: Learn web dev, Category: Programming, Duration: 30, Price: 999, Image: course.jpg	<ul style="list-style-type: none"> • Course created • Success message • Course listed 	Course created successfully	Pass
TC-CM-002	Course Creation	Verify course creation without image	1. Login as admin 2. Fill details 3. Skip image 4. Submit	Title: Math Course, Description: Basic math, Category: Mathematics, Duration: 20, Price: 499	<ul style="list-style-type: none"> • Course created • Default image used • Success message 	Course created with default image	Pass

TC-CM-003	Lecture Addition	Verify adding lecture to course	1. Select course 2. Add lecture details 3. Upload video	Title: Intro Lecture, Description: Course intro, Video: lecture.mp4	<ul style="list-style-type: none"> • Lecture added • Success message • Video uploaded 	Lecture added successfully	Pass
TC-CM-004	Lecture Addition	Verify lecture addition without video	1. Select course 2. Add lecture details 3. Skip video 4. Submit	Title: Text Lecture, Description: Text content	<ul style="list-style-type: none"> • Error message • Lecture not added 	"Video required" message shown	Pass
TC-CM-005	Course Update	Verify course details update	1. Select course 2. Update details 3. Save changes	Title: Updated Title, Price: 799	<ul style="list-style-type: none"> • Course updated • Success message 	Course updated successfully	Pass
TC-CM-006	Course Deletion	Verify course deletion	1. Select course 2. Click delete 3. Confirm	Course ID: course_id	<ul style="list-style-type: none"> • Course deleted • Related lectures deleted • Success message 	Course and lectures deleted	Pass

TC-CM-007	Course Listing	Verify course listing for users	1. Login as user 2. Access course list	Category: Programming	<ul style="list-style-type: none"> • Courses displayed • Correct details shown 	Courses listed correctly	Pass
TC-CM-008	Course Search	Verify course search functionality	1. Enter search term 2. Submit search	Search Term: web	<ul style="list-style-type: none"> • Matching courses displayed • Search results accurate 	Search results displayed correctly	Pass
TC-CM-009	Course Filtering	Verify course filtering by category	1. Select category 2. Apply filter	Category: Programming	<ul style="list-style-type: none"> • Filtered courses displayed • Correct category 	Filtered results displayed	Pass

Project Name	Elearning Platform
Module Name	Payment Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-PM-001	Course Checkout	Verify course checkout initiation	1. Select course 2. Click enroll 3. Proceed to checkout	Course ID: course123, Amount: 999	<ul style="list-style-type: none"> • Razorpay order created • Order details displayed • Payment options shown 	Order created successfully	Pass
TC-PM-002	Payment Processing	Verify successful payment processing	1. Complete payment 2. Submit verification	Razorpay Order ID: order123, Razorpay Payment ID: pay123, Razorpay Signature: sig123	<ul style="list-style-type: none"> • Payment verified • Course added to subscriptions • Confirmation email sent 	Payment processed successfully	Pass
TC-PM-003	Payment Failure	Verify payment failure handling	1. Initiate payment 2. Cancel payment	Order ID: order123, Status: failed	<ul style="list-style-type: none"> • Error message displayed • Order cancelled 	Payment cancelled, no access granted	Pass

TC-PM-004	Duplicate Payment	Verify duplicate payment prevention	1. Try to pay for already purchased course	Course ID: course123, User ID: user123	<ul style="list-style-type: none"> • Error message displayed • Payment prevented 	"Already purchased" message shown	Pass
TC-PM-005	Payment Amount	Verify correct payment amount	1. Check course price 2. Verify payment amount	Course ID: course123, Expected Amount: 999	<ul style="list-style-type: none"> • Correct amount charged • Price matches course 	Amount verified correctly	Pass
TC-PM-006	Payment History	Verify payment history access	1. Access payment history 2. View transactions	User ID: user123	<ul style="list-style-type: none"> • Payment history displayed • Transaction details shown 	History displayed correctly	Pass
TC-PM-007	Refund Processing	Verify refund request processing	1. Request refund 2. Submit details	Payment ID: pay123, Reason: course not suitable	<ul style="list-style-type: none"> • Refund initiated • Status updated • Email notification 	Refund processed successfully	Pass
TC-PM-008	Payment Timeout	Verify payment session timeout	1. Initiate payment 2. Wait for timeout	Order ID: order123, Timeout: 15min	<ul style="list-style-type: none"> • Session expired • Order cancelled • Error message 	Session expired correctly	Pass

TC-PM-009	Multiple Course Purchase	Verify multiple course purchase	1. Select multiple courses 2. Proceed to payment	Courses: [course1, course2], Total Amount: 1998	<ul style="list-style-type: none"> • Combined payment processed • All courses added • Single transaction 	Multiple courses purchased	Pass
TC-PM-010	Payment Receipt	Verify payment receipt generation	1. Complete payment 2. Download receipt	Payment ID: pay123, User ID: user123	<ul style="list-style-type: none"> • Receipt generated • Correct details shown • PDF format 	Receipt generated correctly	Pass

Project Name	Elearning Platform
Module Name	Progress Tracking Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-PT-001	Lecture Completion	Verify lecture completion tracking	1. Watch lecture 2. Mark as complete	Course ID: course123, Lecture ID: lecture123, User ID: user123	<ul style="list-style-type: none"> • Progress updated • Lecture marked complete • Percentage updated 	Progress updated successfully	Pass
TC-PT-002	Course Progress	Verify overall course progress	1. Access course 2. Check progress	Course ID: course123, User ID: user123	<ul style="list-style-type: none"> • Progress percentage shown • Completed lectures listed • Remaining lectures shown 	Progress displayed correctly	Pass
TC-PT-003	Progress Reset	Verify progress reset functionality	1. Select course 2. Reset progress	Course ID: course123, User ID: user123	<ul style="list-style-type: none"> • Progress reset to 0 • All lectures marked incomplete 	Progress reset successfully	Pass

					• Confirmation message		
TC-PT-004	Partial Progress	Verify partial lecture completion	1. Watch partial lecture 2. Check progress	Course ID: course123, Lecture ID: lecture123, Watch Time: 50%	<ul style="list-style-type: none"> • Partial progress recorded • Watch time tracked • Progress percentage updated 	Partial progress recorded	Pass
TC-PT-005	Progress Sync	Verify progress sync across devices	1. Watch on device 1 2. Check on device 2	User ID: user123, Course ID: course123	<ul style="list-style-type: none"> • Progress synced • Same progress shown • No data loss 	Progress synced correctly	Pass
TC-PT-006	Progress Export	Verify progress data export	1. Access progress 2. Export data	User ID: user123, Format: PDF	<ul style="list-style-type: none"> • Progress exported • Correct format • All details included 	Export successful	Pass
TC-PT-007	Progress Analytics	Verify progress analytics	1. Access analytics 2. View statistics	User ID: user123, Timeframe: monthly	<ul style="list-style-type: none"> • Analytics displayed • Statistics shown • Trends visible 	Analytics displayed correctly	Pass
TC-PT-008	Progress Notifications	Verify progress notifications	1. Complete milestones 2. Check notifications	User ID: user123, Milestone: 50%	<ul style="list-style-type: none"> • Notification sent • Milestone recorded • Achievement shown 	Notification received	Pass

TC-PT-009	Progress Sharing	Verify progress sharing	1. Access progress 2. Share progress	User ID: user123, Course ID: course123	<ul style="list-style-type: none"> • Share link generated • Progress visible • Correct format 	Sharing successful	Pass
TC-PT-010	Progress History	Verify progress history	1. Access history 2. View past progress	User ID: user123, Course ID: course123	<ul style="list-style-type: none"> • History displayed • Timeline shown • Changes tracked 	History displayed correctly	Pass

Project Name	Elearning Platform
Module Name	Certificate Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-CERT-001	Certificate Generation	Verify automatic certificate generation	1. Complete course 2. Check certificate	User ID: user123, Course ID: course123	<ul style="list-style-type: none"> • Certificate generated • PDF created • Success message 	Certificate generated	Pass
TC-CERT-002	Certificate Download	Verify certificate download	1. Access certificate 2. Download PDF	Certificate ID: cert123, Format: PDF	<ul style="list-style-type: none"> • PDF downloaded • Correct format • All details included 	Download successful	Pass
TC-CERT-003	Certificate Verification	Verify certificate authenticity	1. Access verification 2. Enter certificate ID	Certificate ID: cert123	<ul style="list-style-type: none"> • Verification result • Certificate details • Validity status 	Verification successful	Pass
TC-CERT-004	Certificate Customization	Verify certificate customization	1. Access settings 2. Customize template	Template: modern, Colors: [blue, gold]	<ul style="list-style-type: none"> • Template updated • Changes saved • Preview available 	Customization saved	Pass

TC-CERT-005	Certificate Reissue	Verify certificate reissue	1. Request reissue 2. Submit details	Certificate ID: cert123, Reason: damaged	<ul style="list-style-type: none"> • New certificate generated • Old one invalidated • Email notification 	Reissue successful	Pass
TC-CERT-006	Certificate Sharing	Verify certificate sharing	1. Access certificate 2. Share link	Certificate ID: cert123, Platform: linkedin	<ul style="list-style-type: none"> • Share link generated • Preview available • Platform integration 	Sharing successful	Pass
TC-CERT-007	Certificate Expiry	Verify certificate expiry handling	1. Check expiry date 2. Verify status	Certificate ID: cert123, Expiry Date: 2024-12-31	<ul style="list-style-type: none"> • Expiry status shown • Renewal option • Notification sent 	Expiry handled correctly	Pass
TC-CERT-008	Certificate Batch	Verify batch certificate generation	1. Select multiple users 2. Generate certificates	User IDs: [user1, user2], Course ID: course123	<ul style="list-style-type: none"> • Batch generation • All certificates created • Success message 	Batch generation successful	Pass
TC-CERT-009	Certificate Template	Verify template management	1. Access templates 2. Create new template	Name: new_template, Fields: [name, course, date]	<ul style="list-style-type: none"> • Template created • Fields configured • Preview available 	Template created successfully	Pass

Project Name	Elearning Platform
Module Name	Admin Management Module

Test Case ID	Test Feature	Test Description	Test Steps	Test Data	Expected Result	Actual Result	Status
TC-AM-001	User Role Update	Verify user role modification	1. Select user 2. Change role	User ID: user123, New Role: admin	<ul style="list-style-type: none"> • Role updated • Success message • Changes reflected 	Role updated successfully	Pass
TC-AM-002	User Management	Verify user list management	1. Access user list 2. View details	Filter: all, Sort: name	<ul style="list-style-type: none"> • Users listed • Details shown • Filtering working 	List displayed correctly	Pass
TC-AM-004	Report Generation	Verify report generation	1. Access reports 2. Generate report	Type: monthly, Format: PDF	<ul style="list-style-type: none"> • Report generated • Data accurate 	Report generated successfully	Pass

					<ul style="list-style-type: none"> • correct 		
TC-AM-005	Analytics Dashboard	Verify dashboard analytics	1. Access dashboard 2. View statistics	Timeframe: weekly, Metrics: [users, courses]	<ul style="list-style-type: none"> • Analytics displayed • Charts shown • Data accurate 	Dashboard displayed correctly	Pass
TC-AM-006	Content Moderation	Verify content moderation	1. Access content 2. Review submissions	Content ID: content123, Action: approve	<ul style="list-style-type: none"> • Content moderated • Status updated • Notification sent 	Moderation successful	Pass
TC-AM-007	System Settings	Verify system settings management	1. Access settings 2. Update configuration	Setting: email, Value: new@example.com	<ul style="list-style-type: none"> • Settings updated • Changes saved • System updated 		Pass