**5.4 Test Case**

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| **Project Name** | Elearning Platform |
| **Module Name** | User Management Module |

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| **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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • Password updated  • Success message | Password reset successful | Pass |
| TC-UM-009 | Profile Update | Verify profile information update | 1. Access profile 2. Update details 3. Save changes | Name: John Updated, Mobile: 9876543210 | • 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 | • Session expired  • Redirect to login | Session expired, redirected to login | Pass |

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| **Project Name** | Elearning Platform |
| **Module Name** | Course Management Module |

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| **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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • Filtered courses displayed  • Correct category | Filtered results displayed | Pass |

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| **Project Name** | Elearning Platform |
| **Module Name** | Payment Module |

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| **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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • 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 | • Receipt generated  • Correct details shown  • PDF format | Receipt generated correctly | Pass |

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| **Project Name** | Elearning Platform |
| **Module Name** | Progress Tracking Module |

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| **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 | • 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 | • 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 | • Progress reset to 0  • All lectures marked incomplete  • Confirmation message | Progress reset successfully | Pass |
| 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% | • 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 | • 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 | • 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 | • 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% | • 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 | • 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 | • History displayed  • Timeline shown  • Changes tracked | History displayed correctly | Pass |

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| **Project Name** | Elearning Platform |
| **Module Name** | Certificate Module |

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| **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 | • 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 | • 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 | • 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] | • 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 | • 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 | • 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 | • 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 | • 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] | • Template created  • Fields configured  • Preview available | Template created successfully | Pass |

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| **Project Name** | Elearning Platform |
| **Module Name** | Admin Management Module |

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| **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 | • 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 | • 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 | • Report generated  • Data accurate  • correct | Report generated successfully | **Pass** |
| TC-AM-005 | Analytics Dashboard | Verify dashboard analytics | 1. Access dashboard 2. View statistics | Timeframe: weekly, Metrics: [users, courses] | • 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 | • 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 | • Settings updated  • Changes saved  • System updated |  | **Pass** |