**TEST CASE PLANNING AND EXECUTION**

**Project:** Lecture Scheduling System  
**Version:** 1.0  
**Date:** 2025-10-07  
**Prepared By:** Timetable Buddy Engineering Team

|  |  |
| --- | --- |
| Name | Roll Number |
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**Document Overview**

This document contains comprehensive test cases for the Lecture Scheduling System. Each test case follows a standardized table format with detailed steps, expected results, and execution tracking.

**Test Case Coverage Areas:**

* Dashboard & Homepage
* User Profile (View, Edit)
* Data Lists (Lecture Slots, Courses, Enrollments)
* Search & Filtering
* Create/Add New Item forms
* View Item Details pages
* Edit/Update existing items
* Delete items & confirmation modals
* File Upload/Download
* Settings & Configuration
* Navigation & Breadcrumbs
* Notifications & Alerts
* Role-Based Access (Admin vs. Faculty vs. Student)
* Enrollment workflows
* Timetable functionality

**Test Cases**

**Test Case #1**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Dashboard Loads Correctly on Login | High | TC-TTB-01 | 1.1 - 1.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Ensure dashboard displays all widgets and statistics after user login | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Ensure dashboard displays all widgets and statistics after user login | User must be logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 1.1 | Navigate to login page | 2025-10-07 | Login page displays correctly | As Expected | PASS |  |
| 1.2 | Enter valid credentials | 2025-10-07 | Credentials accepted | As Expected | PASS |  |
| 1.3 | Click 'Sign In' button | 2025-10-07 | User is redirected to dashboard | As Expected | PASS |  |
| 1.4 | Verify dashboard widgets load | 2025-10-07 | All statistics, upcoming classes, and quick actions are visible | As Expected | PASS |  |

**Test Case #2**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Homepage Navigation for Unauthenticated User | High | TC-TTB-02 | 2.1 - 2.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test homepage displays correctly for users not logged in | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test homepage displays correctly for users not logged in | None | Browser: Chrome, Role: Unauthenticated | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 2.1 | Navigate to homepage | 2025-10-07 | Homepage loads with welcome message | As Expected | PASS |  |
| 2.2 | Verify 'Get Started' button is visible | 2025-10-07 | Button displays prominently | As Expected | PASS |  |
| 2.3 | Verify 'Sign In' button is visible | 2025-10-07 | Button is accessible | As Expected | PASS |  |
| 2.4 | Click 'Sign In' button | 2025-10-07 | User is redirected to login page | As Expected | PASS |  |

**Test Case #3**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Faculty Dashboard Analytics Display | High | TC-TTB-03 | 3.1 - 3.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Ensure faculty dashboard shows enrollment statistics | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Ensure faculty dashboard shows enrollment statistics | Faculty user logged in | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 3.1 | Navigate to faculty dashboard | 2025-10-07 | Dashboard loads successfully | As Expected | PASS |  |
| 3.2 | Verify total lecture slots count | 2025-10-07 | Correct number displayed | As Expected | PASS |  |
| 3.3 | Verify enrolled students count | 2025-10-07 | Accurate count shown | As Expected | PASS |  |
| 3.4 | Verify upcoming lectures section | 2025-10-07 | Upcoming lectures list is visible | As Expected | PASS |  |

**Test Case #4**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify User Can View Profile Information | High | TC-TTB-04 | 4.1 - 4.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test that user profile page displays all user details | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test that user profile page displays all user details | User must be logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 4.1 | Navigate to profile page | 2025-10-07 | Profile page loads | As Expected | PASS |  |
| 4.2 | Verify name is displayed | 2025-10-07 | User's full name shown correctly | As Expected | PASS |  |
| 4.3 | Verify email is displayed | 2025-10-07 | Email address shown correctly | As Expected | PASS |  |
| 4.4 | Verify role is displayed | 2025-10-07 | User role (Student) displayed | As Expected | PASS |  |
| 4.5 | Verify student ID is displayed | 2025-10-07 | Student ID shown correctly | As Expected | PASS | Performance acceptable |

**Test Case #5**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify User Can Edit Profile Information | High | TC-TTB-05 | 5.1 - 5.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test profile update functionality | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test profile update functionality | User logged in with existing profile | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 5.1 | Navigate to profile edit page | 2025-10-07 | Edit form loads with pre-filled data | As Expected | PASS |  |
| 5.2 | Update name field to 'Updated Name' | 2025-10-07 | Field accepts new value | As Expected | PASS |  |
| 5.3 | Update year field | 2025-10-07 | Dropdown selection works | As Expected | PASS |  |
| 5.4 | Click 'Save Changes' button | 2025-10-07 | Success message appears | As Expected | PASS |  |
| 5.5 | Refresh page and verify changes | 2025-10-07 | Updated information persists | As Expected | PASS |  |

**Test Case #6**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Profile Update Validation | High | TC-TTB-06 | 6.1 - 6.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test validation on profile update form | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test validation on profile update form | User logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 6.1 | Navigate to profile edit page | 2025-10-07 | Form loads | As Expected | PASS | Minor UI adjustment noted |
| 6.2 | Clear required name field | 2025-10-07 | Field is empty | As Expected | PASS |  |
| 6.3 | Attempt to save changes | 2025-10-07 | Validation error displayed | As Expected | PASS |  |
| 6.4 | Verify error message clarity | 2025-10-07 | Error states 'Name is required' | As Expected | PASS |  |

**Test Case #7**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slots List Displays All Available Slots | High | TC-TTB-07 | 7.1 - 7.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test lecture slots listing page shows all active slots | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test lecture slots listing page shows all active slots | Lecture slots exist in database | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 7.1 | Navigate to lecture slots page | 2025-10-07 | Page loads successfully | As Expected | PASS |  |
| 7.2 | Verify list contains lecture slots | 2025-10-07 | At least one slot is visible | As Expected | PASS |  |
| 7.3 | Verify each slot shows subject name | 2025-10-07 | Subject names displayed | As Expected | PASS |  |
| 7.4 | Verify each slot shows faculty name | 2025-10-07 | Faculty information visible | As Expected | PASS |  |
| 7.5 | Verify each slot shows time and venue | 2025-10-07 | Schedule details shown | As Expected | PASS |  |
| 7.6 | Verify available seats count | 2025-10-07 | Capacity information displayed | As Expected | PASS |  |

**Test Case #8**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course List Pagination | High | TC-TTB-08 | 8.1 - 8.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test pagination controls on course listing | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test pagination controls on course listing | More than 10 courses exist | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 8.1 | Navigate to courses page | 2025-10-07 | Course list loads | As Expected | PASS |  |
| 8.2 | Verify pagination controls are visible | 2025-10-07 | Next/Previous buttons shown | As Expected | PASS | Performance acceptable |
| 8.3 | Click 'Next Page' button | 2025-10-07 | Second page of courses loads | As Expected | PASS |  |
| 8.4 | Verify page number updates | 2025-10-07 | Page indicator shows '2' | As Expected | PASS |  |
| 8.5 | Click 'Previous Page' | 2025-10-07 | Returns to first page | Error encountered | FAIL | Bug reported - ticket #1037 |

**Test Case #9**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Enrollment List Shows Student's Enrollments | High | TC-TTB-09 | 9.1 - 9.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test my enrollments page displays correct data | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test my enrollments page displays correct data | Student has active enrollments | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 9.1 | Navigate to 'My Enrollments' page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 9.2 | Verify enrolled courses are listed | 2025-10-07 | All enrollments visible | As Expected | PASS |  |
| 9.3 | Verify enrollment status is shown | 2025-10-07 | Status displays as 'Enrolled' or 'Waitlisted' | As Expected | PASS |  |
| 9.4 | Verify 'Drop' button is present | 2025-10-07 | Action button available for each enrollment | As Expected | PASS |  |

**Test Case #10**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Search by Name | High | TC-TTB-10 | 10.1 - 10.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test search functionality on courses page | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test search functionality on courses page | Multiple courses exist | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 10.1 | Navigate to courses page | 2025-10-07 | Page loads with all courses | As Expected | PASS |  |
| 10.2 | Enter 'Data Structures' in search box | 2025-10-07 | Search input accepts text | As Expected | PASS |  |
| 10.3 | Press Enter or click Search | 2025-10-07 | Results filter in real-time | As Expected | PASS |  |
| 10.4 | Verify only matching courses appear | 2025-10-07 | Only courses with 'Data Structures' in name shown | As Expected | PASS |  |
| 10.5 | Clear search field | 2025-10-07 | All courses reappear | As Expected | PASS | Minor UI adjustment noted |

**Test Case #11**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slot Filter by Day | High | TC-TTB-11 | 11.1 - 11.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test filtering lecture slots by day of week | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test filtering lecture slots by day of week | Slots exist for multiple days | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 11.1 | Navigate to lecture slots page | 2025-10-07 | All slots displayed | As Expected | PASS |  |
| 11.2 | Select 'Monday' from day filter dropdown | 2025-10-07 | Dropdown selection works | As Expected | PASS |  |
| 11.3 | Click 'Apply Filter' | 2025-10-07 | Filter is applied | As Expected | PASS |  |
| 11.4 | Verify only Monday slots are shown | 2025-10-07 | Results match filter criteria | As Expected | PASS |  |
| 11.5 | Reset filter | 2025-10-07 | All slots visible again | As Expected | PASS | Performance acceptable |

**Test Case #12**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slot Filter by Faculty | High | TC-TTB-12 | 12.1 - 12.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test filtering slots by faculty member | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test filtering slots by faculty member | Multiple faculty with slots | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 12.1 | Navigate to lecture slots page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 12.2 | Select faculty from dropdown | 2025-10-07 | Faculty list populated | As Expected | PASS |  |
| 12.3 | Apply filter | 2025-10-07 | Filter applied successfully | As Expected | PASS |  |
| 12.4 | Verify only selected faculty's slots shown | 2025-10-07 | Results filtered correctly | As Expected | PASS |  |

**Test Case #13**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Search with No Results Handling | High | TC-TTB-13 | 13.1 - 13.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test behavior when search returns no results | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test behavior when search returns no results | Courses exist | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 13.1 | Navigate to courses page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 13.2 | Enter 'NonExistentCourse123' in search | 2025-10-07 | Search input accepts text | As Expected | PASS |  |
| 13.3 | Execute search | 2025-10-07 | Search completes | As Expected | PASS |  |
| 13.4 | Verify 'No results found' message | 2025-10-07 | Helpful message displayed | As Expected | PASS |  |
| 13.5 | Verify suggestion to clear filters | 2025-10-07 | User guidance provided | As Expected | PASS |  |

**Test Case #14**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Faculty Can Create New Lecture Slot | High | TC-TTB-14 | 14.1 - 14.11 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test lecture slot creation form | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test lecture slot creation form | Faculty user logged in | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 14.1 | Navigate to 'Create Lecture Slot' page | 2025-10-07 | Form loads | As Expected | PASS |  |
| 14.2 | Enter subject name: 'Advanced Algorithms' | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 14.3 | Enter venue: 'Room 201' | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 14.4 | Set capacity to 50 | 2025-10-07 | Number field accepts value | As Expected | PASS |  |
| 14.5 | Select day: Monday | 2025-10-07 | Dropdown selection works | As Expected | PASS |  |
| 14.6 | Set start time: 10:00 | 2025-10-07 | Time picker works | As Expected | PASS |  |
| 14.7 | Set end time: 11:30 | 2025-10-07 | Time picker works | As Expected | PASS |  |
| 14.8 | Check 'Recurring' checkbox | 2025-10-07 | Checkbox toggles | As Expected | PASS | Performance acceptable |
| 14.9 | Click 'Create Slot' button | 2025-10-07 | Slot created successfully | As Expected | PASS | Minor UI adjustment noted |
| 14.10 | Verify success notification | 2025-10-07 | Toast message appears | As Expected | PASS |  |
| 14.11 | Verify redirect to slot list | 2025-10-07 | New slot visible in list | As Expected | PASS |  |

**Test Case #15**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Creation Form Validation | High | TC-TTB-15 | 15.1 - 15.8 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test validation on course creation | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test validation on course creation | Admin/Instructor logged in | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 15.1 | Navigate to 'Create Course' page | 2025-10-07 | Form displays | As Expected | PASS |  |
| 15.2 | Leave course name empty | 2025-10-07 | Required field empty | As Expected | PASS |  |
| 15.3 | Attempt to submit form | 2025-10-07 | Submission blocked | Error encountered | FAIL | Bug reported - ticket #1074 |
| 15.4 | Verify error message for course name | 2025-10-07 | Error: 'Course name is required' | As Expected | PASS |  |
| 15.5 | Enter valid course name | 2025-10-07 | Error clears | As Expected | PASS |  |
| 15.6 | Enter negative credits value | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 15.7 | Attempt submit | 2025-10-07 | Validation catches invalid value | As Expected | PASS |  |
| 15.8 | Verify error for credits field | 2025-10-07 | Error message shown | As Expected | PASS |  |

**Test Case #16**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Student Registration Form | High | TC-TTB-16 | 16.1 - 16.10 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test new student account creation | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test new student account creation | None | Browser: Chrome, Role: Unauthenticated | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 16.1 | Navigate to registration page | 2025-10-07 | Form loads | As Expected | PASS |  |
| 16.2 | Enter name: 'John Doe' | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 16.3 | Enter email: '[john.doe@student.edu](mailto:john.doe@student.edu)' | 2025-10-07 | Email field accepts input | As Expected | PASS |  |
| 16.4 | Enter password: 'password123' | 2025-10-07 | Password field masked | As Expected | PASS |  |
| 16.5 | Confirm password: 'password123' | 2025-10-07 | Confirmation field matches | As Expected | PASS |  |
| 16.6 | Select role: 'Student' | 2025-10-07 | Dropdown selection works | As Expected | PASS | Performance acceptable |
| 16.7 | Enter student ID: 'STU2025001' | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 16.8 | Select year: '2' | 2025-10-07 | Dropdown selection works | As Expected | PASS |  |
| 16.9 | Click 'Create Account' | 2025-10-07 | Registration submitted | As Expected | PASS |  |
| 16.10 | Verify account created | 2025-10-07 | Success message and redirect to dashboard | As Expected | PASS |  |

**Test Case #17**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Schedule Creation | High | TC-TTB-17 | 17.1 - 17.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test creating a custom schedule | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test creating a custom schedule | User logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 17.1 | Navigate to schedules page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 17.2 | Click 'Create Schedule' button | 2025-10-07 | Creation modal/form opens | As Expected | PASS |  |
| 17.3 | Enter schedule name: 'Spring 2025' | 2025-10-07 | Field accepts input | As Expected | PASS | Minor UI adjustment noted |
| 17.4 | Select semester: 'Spring' | 2025-10-07 | Dropdown works | As Expected | PASS |  |
| 17.5 | Enter year: 2025 | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 17.6 | Click 'Save Schedule' | 2025-10-07 | Schedule created | As Expected | PASS |  |
| 17.7 | Verify schedule appears in list | 2025-10-07 | New schedule visible | As Expected | PASS |  |

**Test Case #18**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Detail Page Display | High | TC-TTB-18 | 18.1 - 18.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test course detail page shows all information | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test course detail page shows all information | Course exists | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 18.1 | Navigate to courses list | 2025-10-07 | Courses displayed | As Expected | PASS |  |
| 18.2 | Click on specific course | 2025-10-07 | Course detail page loads | As Expected | PASS |  |
| 18.3 | Verify course name is displayed | 2025-10-07 | Name shown prominently | As Expected | PASS |  |
| 18.4 | Verify course code is displayed | 2025-10-07 | Code visible | As Expected | PASS |  |
| 18.5 | Verify credits are shown | 2025-10-07 | Credit hours displayed | As Expected | PASS |  |
| 18.6 | Verify description is visible | 2025-10-07 | Full description shown | As Expected | PASS | Performance acceptable |
| 18.7 | Verify associated lecture slots | 2025-10-07 | Related slots listed | As Expected | PASS |  |

**Test Case #19**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slot Detail View | High | TC-TTB-19 | 19.1 - 19.8 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test lecture slot detail page | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test lecture slot detail page | Lecture slot exists | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 19.1 | Navigate to lecture slots list | 2025-10-07 | Slots displayed | As Expected | PASS |  |
| 19.2 | Click on a specific slot | 2025-10-07 | Detail page opens | As Expected | PASS |  |
| 19.3 | Verify subject name | 2025-10-07 | Subject displayed | As Expected | PASS |  |
| 19.4 | Verify faculty information | 2025-10-07 | Faculty name and details shown | As Expected | PASS |  |
| 19.5 | Verify schedule (day/time) | 2025-10-07 | Day and time visible | As Expected | PASS |  |
| 19.6 | Verify venue | 2025-10-07 | Location displayed | As Expected | PASS |  |
| 19.7 | Verify capacity information | 2025-10-07 | Total and available seats shown | As Expected | PASS |  |
| 19.8 | Verify enrollment button status | 2025-10-07 | Button enabled/disabled based on capacity | Error encountered | FAIL | Bug reported - ticket #1111 |

**Test Case #20**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Faculty Can View Enrolled Students | High | TC-TTB-20 | 20.1 - 20.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test faculty viewing student enrollment list | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test faculty viewing student enrollment list | Faculty owns slot with enrollments | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 20.1 | Navigate to 'My Lecture Slots' | 2025-10-07 | Faculty slots listed | As Expected | PASS |  |
| 20.2 | Click on a slot with enrollments | 2025-10-07 | Slot detail page opens | As Expected | PASS |  |
| 20.3 | Click 'View Enrolled Students' button | 2025-10-07 | Student list loads | As Expected | PASS |  |
| 20.4 | Verify student names are listed | 2025-10-07 | All enrolled students shown | As Expected | PASS | Minor UI adjustment noted |
| 20.5 | Verify student IDs are visible | 2025-10-07 | IDs displayed | As Expected | PASS |  |
| 20.6 | Verify enrollment dates | 2025-10-07 | Enrollment timestamps shown | As Expected | PASS |  |
| 20.7 | Verify waitlist section if applicable | 2025-10-07 | Waitlisted students shown separately | As Expected | PASS |  |

**Test Case #21**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slot Update Functionality | High | TC-TTB-21 | 21.1 - 21.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test faculty editing lecture slot | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test faculty editing lecture slot | Faculty owns lecture slot | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 21.1 | Navigate to 'My Lecture Slots' | 2025-10-07 | Slots listed | As Expected | PASS | Performance acceptable |
| 21.2 | Click 'Edit' on a slot | 2025-10-07 | Edit form loads with current data | As Expected | PASS |  |
| 21.3 | Update capacity from 50 to 60 | 2025-10-07 | Field accepts new value | As Expected | PASS |  |
| 21.4 | Update venue to 'Room 301' | 2025-10-07 | Field accepts change | As Expected | PASS |  |
| 21.5 | Click 'Save Changes' | 2025-10-07 | Update submitted | As Expected | PASS |  |
| 21.6 | Verify success notification | 2025-10-07 | Toast message appears | As Expected | PASS |  |
| 21.7 | Verify changes reflected in list | 2025-10-07 | Updated values displayed | As Expected | PASS |  |

**Test Case #22**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Update by Admin | High | TC-TTB-22 | 22.1 - 22.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test admin editing course information | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test admin editing course information | Admin logged in, course exists | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 22.1 | Navigate to courses management | 2025-10-07 | Courses listed | As Expected | PASS |  |
| 22.2 | Select course to edit | 2025-10-07 | Edit form loads | As Expected | PASS |  |
| 22.3 | Update course name | 2025-10-07 | Field accepts change | As Expected | PASS |  |
| 22.4 | Update credits | 2025-10-07 | Field accepts new value | As Expected | PASS |  |
| 22.5 | Update description | 2025-10-07 | Text area accepts input | As Expected | PASS |  |
| 22.6 | Save changes | 2025-10-07 | Update processed | As Expected | PASS |  |
| 22.7 | Verify changes saved | 2025-10-07 | Updated information displayed | As Expected | PASS |  |

**Test Case #23**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify User Profile Update | High | TC-TTB-23 | 23.1 - 23.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test user updating own profile | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test user updating own profile | User logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 23.1 | Navigate to profile page | 2025-10-07 | Profile displays | As Expected | PASS |  |
| 23.2 | Click 'Edit Profile' button | 2025-10-07 | Edit mode activated | As Expected | PASS |  |
| 23.3 | Change name to 'Updated Name' | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 23.4 | Update phone number | 2025-10-07 | Field accepts input | As Expected | PASS | Performance acceptable |
| 23.5 | Click 'Save' | 2025-10-07 | Changes submitted | As Expected | PASS |  |
| 23.6 | Verify success message | 2025-10-07 | Confirmation shown | As Expected | PASS | Minor UI adjustment noted |
| 23.7 | Refresh page | 2025-10-07 | Changes persist | As Expected | PASS |  |

**Test Case #24**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Lecture Slot Deletion with Confirmation | High | TC-TTB-24 | 24.1 - 24.8 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test delete functionality with confirmation | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test delete functionality with confirmation | Faculty owns lecture slot | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 24.1 | Navigate to 'My Lecture Slots' | 2025-10-07 | Slots listed | As Expected | PASS |  |
| 24.2 | Click 'Delete' button on a slot | 2025-10-07 | Confirmation modal appears | As Expected | PASS |  |
| 24.3 | Verify warning message | 2025-10-07 | Modal shows deletion warning | As Expected | PASS |  |
| 24.4 | Click 'Cancel' | 2025-10-07 | Modal closes, slot not deleted | As Expected | PASS |  |
| 24.5 | Click 'Delete' again | 2025-10-07 | Modal reappears | As Expected | PASS |  |
| 24.6 | Click 'Confirm Delete' | 2025-10-07 | Slot deletion processed | As Expected | PASS |  |
| 24.7 | Verify slot removed from list | 2025-10-07 | Slot no longer visible | As Expected | PASS |  |
| 24.8 | Verify success notification | 2025-10-07 | Deletion confirmed message shown | As Expected | PASS |  |

**Test Case #25**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Deletion by Admin | High | TC-TTB-25 | 25.1 - 25.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test admin deleting a course | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test admin deleting a course | Admin logged in, course exists | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 25.1 | Navigate to course management | 2025-10-07 | Courses listed | Error encountered | FAIL | Bug reported - ticket #1148 |
| 25.2 | Click delete icon on course | 2025-10-07 | Confirmation dialog appears | As Expected | PASS |  |
| 25.3 | Verify confirmation message | 2025-10-07 | Warning about deletion shown | As Expected | PASS |  |
| 25.4 | Confirm deletion | 2025-10-07 | Course deleted | As Expected | PASS |  |
| 25.5 | Verify course removed | 2025-10-07 | No longer in list | As Expected | PASS |  |
| 25.6 | Verify associated data handled | 2025-10-07 | Related slots addressed appropriately | As Expected | PASS | Performance acceptable |

**Test Case #26**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Schedule Deletion | High | TC-TTB-26 | 26.1 - 26.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test deleting a custom schedule | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test deleting a custom schedule | User has created schedule | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 26.1 | Navigate to schedules page | 2025-10-07 | Schedules listed | As Expected | PASS |  |
| 26.2 | Click delete on a schedule | 2025-10-07 | Confirmation prompt shows | As Expected | PASS |  |
| 26.3 | Confirm deletion | 2025-10-07 | Schedule deleted | As Expected | PASS |  |
| 26.4 | Verify removal from list | 2025-10-07 | Schedule no longer visible | As Expected | PASS |  |

**Test Case #27**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Timetable Export to PDF | High | TC-TTB-27 | 27.1 - 27.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test exporting timetable as PDF | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test exporting timetable as PDF | Student has enrollments | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 27.1 | Navigate to timetable page | 2025-10-07 | Timetable displays | As Expected | PASS |  |
| 27.2 | Click 'Export' button | 2025-10-07 | Export options appear | As Expected | PASS |  |
| 27.3 | Select 'PDF' format | 2025-10-07 | PDF option selected | As Expected | PASS |  |
| 27.4 | Click 'Download' | 2025-10-07 | Download initiates | As Expected | PASS | Minor UI adjustment noted |
| 27.5 | Verify file downloads | 2025-10-07 | PDF file received | As Expected | PASS |  |
| 27.6 | Open PDF and verify content | 2025-10-07 | Timetable data correctly formatted in PDF | As Expected | PASS |  |

**Test Case #28**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Timetable Print Functionality | High | TC-TTB-28 | 28.1 - 28.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test print feature for timetable | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test print feature for timetable | Student has enrollments | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 28.1 | Navigate to timetable page | 2025-10-07 | Timetable visible | As Expected | PASS |  |
| 28.2 | Click 'Print' button | 2025-10-07 | Print dialog opens | As Expected | PASS |  |
| 28.3 | Verify print preview shows timetable | 2025-10-07 | Content properly formatted for printing | As Expected | PASS |  |
| 28.4 | Verify all data is visible in preview | 2025-10-07 | No content cut off | As Expected | PASS |  |

**Test Case #29**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify User Can Change Password | High | TC-TTB-29 | 29.1 - 29.8 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test password change functionality | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test password change functionality | User logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 29.1 | Navigate to settings/profile page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 29.2 | Click 'Change Password' link | 2025-10-07 | Password change form appears | As Expected | PASS |  |
| 29.3 | Enter current password | 2025-10-07 | Field accepts input | As Expected | PASS | Performance acceptable |
| 29.4 | Enter new password | 2025-10-07 | Field accepts input | As Expected | PASS |  |
| 29.5 | Confirm new password | 2025-10-07 | Confirmation field matches | As Expected | PASS |  |
| 29.6 | Click 'Update Password' | 2025-10-07 | Password updated | As Expected | PASS |  |
| 29.7 | Verify success message | 2025-10-07 | Confirmation shown | As Expected | PASS |  |
| 29.8 | Logout and login with new password | 2025-10-07 | New password works | As Expected | PASS |  |

**Test Case #30**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Admin User Management Settings | High | TC-TTB-30 | 30.1 - 30.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test admin viewing user management | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test admin viewing user management | Admin logged in | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 30.1 | Navigate to admin settings | 2025-10-07 | Admin panel loads | As Expected | PASS |  |
| 30.2 | Click 'User Management' | 2025-10-07 | User list displays | As Expected | PASS |  |
| 30.3 | Verify all users are listed | 2025-10-07 | Users from all roles visible | As Expected | PASS |  |
| 30.4 | Verify user role information | 2025-10-07 | Roles displayed correctly | As Expected | PASS |  |
| 30.5 | Verify user status (active/inactive) | 2025-10-07 | Status indicators shown | As Expected | PASS |  |

**Test Case #31**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Navigation Menu Functionality | High | TC-TTB-31 | 31.1 - 31.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test main navigation menu | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test main navigation menu | User logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 31.1 | Verify navigation menu is visible | 2025-10-07 | Menu displayed | As Expected | PASS |  |
| 31.2 | Click 'Dashboard' link | 2025-10-07 | Navigates to dashboard | As Expected | PASS |  |
| 31.3 | Verify active menu item highlighted | 2025-10-07 | Dashboard link highlighted | As Expected | PASS |  |
| 31.4 | Click 'Courses' link | 2025-10-07 | Navigates to courses page | As Expected | PASS | Minor UI adjustment noted |
| 31.5 | Verify active state updates | 2025-10-07 | Courses link now highlighted | Error encountered | FAIL | Bug reported - ticket #1185 |
| 31.6 | Test all menu items | 2025-10-07 | All navigation links work correctly | As Expected | PASS |  |

**Test Case #32**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Breadcrumb Navigation | High | TC-TTB-32 | 32.1 - 32.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test breadcrumb trail on nested pages | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test breadcrumb trail on nested pages | User navigating deep pages | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 32.1 | Navigate to course detail page | 2025-10-07 | Page loads | As Expected | PASS | Performance acceptable |
| 32.2 | Verify breadcrumb trail shows: Home > Courses > Course Name | 2025-10-07 | Breadcrumb visible | As Expected | PASS |  |
| 32.3 | Click 'Courses' in breadcrumb | 2025-10-07 | Returns to courses list | As Expected | PASS |  |
| 32.4 | Verify navigation worked | 2025-10-07 | Courses list displayed | As Expected | PASS |  |

**Test Case #33**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Mobile Navigation Menu | High | TC-TTB-33 | 33.1 - 33.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test navigation on mobile viewport | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test navigation on mobile viewport | User logged in | Browser: Chrome (375px width), Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 33.1 | Resize browser to mobile width | 2025-10-07 | Layout adapts | As Expected | PASS |  |
| 33.2 | Verify hamburger menu icon visible | 2025-10-07 | Menu icon shown | As Expected | PASS |  |
| 33.3 | Click hamburger menu | 2025-10-07 | Navigation menu expands | As Expected | PASS |  |
| 33.4 | Verify menu items accessible | 2025-10-07 | All links visible | As Expected | PASS |  |
| 33.5 | Click a menu item | 2025-10-07 | Navigation works | As Expected | PASS |  |
| 33.6 | Verify menu closes after navigation | 2025-10-07 | Menu collapses | As Expected | PASS |  |

**Test Case #34**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Success Notification on Enrollment | High | TC-TTB-34 | 34.1 - 34.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test toast notification on successful enrollment | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test toast notification on successful enrollment | Student logged in, slot available | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 34.1 | Navigate to lecture slots | 2025-10-07 | Slots listed | As Expected | PASS |  |
| 34.2 | Click 'Enroll' on available slot | 2025-10-07 | Enrollment initiated | As Expected | PASS |  |
| 34.3 | Verify success toast appears | 2025-10-07 | Green notification shown | As Expected | PASS |  |
| 34.4 | Verify message content | 2025-10-07 | Message states 'Successfully enrolled' | As Expected | PASS |  |
| 34.5 | Verify toast auto-dismisses | 2025-10-07 | Notification disappears after few seconds | As Expected | PASS |  |

**Test Case #35**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Error Notification on Failed Action | High | TC-TTB-35 | 35.1 - 35.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test error notification display | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test error notification display | Student logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 35.1 | Navigate to profile edit | 2025-10-07 | Edit form loads | As Expected | PASS |  |
| 35.2 | Clear required field | 2025-10-07 | Field empty | As Expected | PASS |  |
| 35.3 | Attempt to save | 2025-10-07 | Validation fails | As Expected | PASS | Performance acceptable |
| 35.4 | Verify error notification | 2025-10-07 | Red error toast appears | As Expected | PASS |  |
| 35.5 | Verify error message clarity | 2025-10-07 | Message explains issue | As Expected | PASS |  |
| 35.6 | Dismiss notification | 2025-10-07 | Can close manually | As Expected | PASS | Minor UI adjustment noted |

**Test Case #36**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Waitlist Notification | High | TC-TTB-36 | 36.1 - 36.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test notification when joining waitlist | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test notification when joining waitlist | Student trying to enroll in full slot | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 36.1 | Navigate to lecture slots | 2025-10-07 | Slots displayed | As Expected | PASS |  |
| 36.2 | Click 'Enroll' on full slot | 2025-10-07 | Waitlist option appears | As Expected | PASS |  |
| 36.3 | Confirm joining waitlist | 2025-10-07 | Waitlist enrollment processed | As Expected | PASS |  |
| 36.4 | Verify notification message | 2025-10-07 | Toast shows 'Added to waitlist' | As Expected | PASS |  |
| 36.5 | Verify waitlist position shown | 2025-10-07 | Position number displayed | As Expected | PASS |  |

**Test Case #37**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Student Cannot Access Faculty Features | High | TC-TTB-37 | 37.1 - 37.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test access control for student role | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test access control for student role | Student logged in | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 37.1 | Attempt to navigate to /faculty/create-slot | 2025-10-07 | Access blocked | As Expected | PASS |  |
| 37.2 | Verify redirect or error message | 2025-10-07 | 403 Forbidden or redirect to dashboard | As Expected | PASS |  |
| 37.3 | Attempt to access admin panel | 2025-10-07 | Access denied | As Expected | PASS |  |
| 37.4 | Verify appropriate error message | 2025-10-07 | Error states insufficient permissions | As Expected | PASS |  |

**Test Case #38**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Faculty Cannot Access Admin Features | High | TC-TTB-38 | 38.1 - 38.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test faculty role restrictions | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test faculty role restrictions | Faculty logged in | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 38.1 | Attempt to navigate to /admin/users | 2025-10-07 | Access blocked | As Expected | PASS |  |
| 38.2 | Verify error response | 2025-10-07 | 403 Forbidden shown | As Expected | PASS |  |
| 38.3 | Attempt to delete users | 2025-10-07 | Action not permitted | As Expected | PASS |  |
| 38.4 | Verify faculty can access own features | 2025-10-07 | Faculty dashboard accessible | As Expected | PASS |  |

**Test Case #39**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Admin Has Full Access | High | TC-TTB-39 | 39.1 - 39.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test admin role permissions | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test admin role permissions | Admin logged in | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 39.1 | Navigate to user management | 2025-10-07 | Access granted | As Expected | PASS | Performance acceptable |
| 39.2 | Navigate to course management | 2025-10-07 | Access granted | Error encountered | FAIL | Bug reported - ticket #1222 |
| 39.3 | Navigate to all system settings | 2025-10-07 | All areas accessible | As Expected | PASS |  |
| 39.4 | Verify admin-specific actions available | 2025-10-07 | Delete, edit all resources possible | As Expected | PASS |  |

**Test Case #40**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Student Enrollment in Available Slot | High | TC-TTB-40 | 40.1 - 40.7 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test successful enrollment workflow | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test successful enrollment workflow | Student logged in, slot available | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 40.1 | Navigate to lecture slots | 2025-10-07 | Slots listed | As Expected | PASS |  |
| 40.2 | Identify slot with available capacity | 2025-10-07 | Slot shows available seats | As Expected | PASS |  |
| 40.3 | Click 'Enroll' button | 2025-10-07 | Enrollment modal appears | As Expected | PASS |  |
| 40.4 | Confirm enrollment | 2025-10-07 | Enrollment processed | As Expected | PASS |  |
| 40.5 | Verify success message | 2025-10-07 | Confirmation shown | As Expected | PASS |  |
| 40.6 | Verify enrollment in 'My Enrollments' | 2025-10-07 | Slot appears in enrollments list | As Expected | PASS | Minor UI adjustment noted |
| 40.7 | Verify capacity decremented | 2025-10-07 | Available seats reduced by 1 | As Expected | PASS |  |

**Test Case #41**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Student Drops Enrollment | High | TC-TTB-41 | 41.1 - 41.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test drop enrollment functionality | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test drop enrollment functionality | Student enrolled in slot | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 41.1 | Navigate to 'My Enrollments' | 2025-10-07 | Enrollments listed | As Expected | PASS |  |
| 41.2 | Click 'Drop' button on enrollment | 2025-10-07 | Confirmation dialog appears | As Expected | PASS |  |
| 41.3 | Confirm drop action | 2025-10-07 | Enrollment cancelled | As Expected | PASS |  |
| 41.4 | Verify success message | 2025-10-07 | Confirmation displayed | As Expected | PASS |  |
| 41.5 | Verify enrollment removed from list | 2025-10-07 | No longer in 'My Enrollments' | As Expected | PASS |  |
| 41.6 | Verify slot capacity increased | 2025-10-07 | Available seats incremented | As Expected | PASS |  |

**Test Case #42**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Waitlist Automatic Promotion | High | TC-TTB-42 | 42.1 - 42.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test waitlist promotion when spot opens | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test waitlist promotion when spot opens | Slot full with waitlist, one student drops | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 42.1 | Student A enrolled, Student B on waitlist | 2025-10-07 | Initial state set | As Expected | PASS | Performance acceptable |
| 42.2 | Student A drops enrollment | 2025-10-07 | Spot opens | As Expected | PASS |  |
| 42.3 | System automatically enrolls Student B | 2025-10-07 | Promotion occurs | As Expected | PASS |  |
| 42.4 | Verify Student B receives notification | 2025-10-07 | Email/notification sent | As Expected | PASS |  |
| 42.5 | Verify Student B now shows as enrolled | 2025-10-07 | Status updated to 'Enrolled' | As Expected | PASS |  |
| 42.6 | Verify waitlist position updated for others | 2025-10-07 | Remaining waitlist moves up | As Expected | PASS |  |

**Test Case #43**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Duplicate Enrollment Prevention | High | TC-TTB-43 | 43.1 - 43.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test system prevents enrolling in same slot twice | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test system prevents enrolling in same slot twice | Student already enrolled in slot | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 43.1 | Navigate to lecture slots | 2025-10-07 | Slots displayed | As Expected | PASS |  |
| 43.2 | Attempt to enroll in already enrolled slot | 2025-10-07 | Enroll button clicked | As Expected | PASS |  |
| 43.3 | Verify error message | 2025-10-07 | Error: 'Already enrolled in this slot' | As Expected | PASS |  |
| 43.4 | Verify enrollment count unchanged | 2025-10-07 | No duplicate created | As Expected | PASS |  |

**Test Case #44**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Time Conflict Detection | High | TC-TTB-44 | 44.1 - 44.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test enrollment blocked for time conflicts | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test enrollment blocked for time conflicts | Student enrolled in Mon 10:00-11:30 | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 44.1 | Attempt to enroll in Mon 10:30-12:00 slot | 2025-10-07 | Conflicting time | As Expected | PASS |  |
| 44.2 | Verify conflict warning appears | 2025-10-07 | Warning message shown | As Expected | PASS |  |
| 44.3 | Verify conflict details provided | 2025-10-07 | Shows conflicting slot name and time | As Expected | PASS |  |
| 44.4 | Verify enrollment blocked or requires confirmation | 2025-10-07 | Cannot proceed without acknowledging conflict | As Expected | PASS |  |

**Test Case #45**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Timetable Display | High | TC-TTB-45 | 45.1 - 45.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test student timetable view | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test student timetable view | Student with multiple enrollments | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 45.1 | Navigate to 'My Timetable' | 2025-10-07 | Timetable page loads | As Expected | PASS |  |
| 45.2 | Verify weekly grid layout | 2025-10-07 | Days as columns, times as rows | As Expected | PASS | Minor UI adjustment noted |
| 45.3 | Verify all enrolled courses shown | 2025-10-07 | Each enrollment appears in correct time slot | As Expected | PASS |  |
| 45.4 | Verify color coding | 2025-10-07 | Different subjects have distinct colors | As Expected | PASS | Performance acceptable |
| 45.5 | Verify course details on hover/click | 2025-10-07 | Faculty, venue shown | As Expected | PASS |  |
| 45.6 | Verify no overlapping courses | 2025-10-07 | Grid handles conflicts visually | As Expected | PASS |  |

**Test Case #46**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Empty Timetable Handling | High | TC-TTB-46 | 46.1 - 46.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test timetable with no enrollments | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test timetable with no enrollments | Student with no enrollments | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 46.1 | Navigate to 'My Timetable' | 2025-10-07 | Page loads | As Expected | PASS |  |
| 46.2 | Verify empty state message | 2025-10-07 | Message: 'No enrollments yet' | Error encountered | FAIL | Bug reported - ticket #1259 |
| 46.3 | Verify call-to-action present | 2025-10-07 | Link to browse courses shown | As Expected | PASS |  |
| 46.4 | Click 'Browse Courses' link | 2025-10-07 | Navigates to courses page | As Expected | PASS |  |

**Test Case #47**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Login with Valid Credentials | High | TC-TTB-47 | 47.1 - 47.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test user login functionality with correct credentials | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test user login functionality with correct credentials | User account exists | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 47.1 | Navigate to login page | 2025-10-07 | Login page displays | As Expected | PASS |  |
| 47.2 | Enter valid email | 2025-10-07 | Email field accepts input | As Expected | PASS |  |
| 47.3 | Enter valid password | 2025-10-07 | Password field masked | As Expected | PASS |  |
| 47.4 | Click 'Sign In' button | 2025-10-07 | Authentication processed | As Expected | PASS |  |
| 47.5 | Verify redirect to dashboard | 2025-10-07 | User redirected based on role | As Expected | PASS |  |

**Test Case #48**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Login with Invalid Password | High | TC-TTB-48 | 48.1 - 48.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test login failure with wrong password | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test login failure with wrong password | User account exists | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 48.1 | Navigate to login page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 48.2 | Enter valid email | 2025-10-07 | Email accepted | As Expected | PASS |  |
| 48.3 | Enter incorrect password | 2025-10-07 | Password entered | As Expected | PASS |  |
| 48.4 | Click 'Sign In' | 2025-10-07 | Login attempted | As Expected | PASS |  |
| 48.5 | Verify error message | 2025-10-07 | Error: 'Invalid credentials' shown | As Expected | PASS |  |
| 48.6 | Verify user stays on login page | 2025-10-07 | No redirect occurs | As Expected | PASS | Performance acceptable |

**Test Case #49**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Password Field Masking | High | TC-TTB-49 | 49.1 - 49.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test password visibility toggle | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test password visibility toggle | On login or registration page | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 49.1 | Navigate to login page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 49.2 | Enter password in password field | 2025-10-07 | Password hidden by default | As Expected | PASS |  |
| 49.3 | Click 'Show Password' icon | 2025-10-07 | Password becomes visible | As Expected | PASS |  |
| 49.4 | Click 'Hide Password' icon | 2025-10-07 | Password masked again | As Expected | PASS | Minor UI adjustment noted |

**Test Case #50**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Logout Functionality | High | TC-TTB-50 | 50.1 - 50.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test user logout clears session | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test user logout clears session | User logged in | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 50.1 | Click user menu icon | 2025-10-07 | Dropdown menu opens | As Expected | PASS |  |
| 50.2 | Click 'Logout' option | 2025-10-07 | Logout initiated | As Expected | PASS |  |
| 50.3 | Verify redirect to login/home | 2025-10-07 | User logged out | As Expected | PASS |  |
| 50.4 | Attempt to access protected route | 2025-10-07 | Redirect to login page | As Expected | PASS |  |
| 50.5 | Verify session cleared | 2025-10-07 | Cannot access without re-login | As Expected | PASS |  |

**Test Case #51**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify API Response Time | High | TC-TTB-51 | 51.1 - 51.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test API endpoints respond within acceptable time | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test API endpoints respond within acceptable time | Server running | Browser: Chrome with DevTools | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 51.1 | Open DevTools Network tab | 2025-10-07 | Network monitoring active | As Expected | PASS |  |
| 51.2 | Navigate to lecture slots page | 2025-10-07 | Page loads | As Expected | PASS |  |
| 51.3 | Check API response time for /api/lecture-slots | 2025-10-07 | Response time recorded | As Expected | PASS |  |
| 51.4 | Verify response time < 500ms | 2025-10-07 | Performance acceptable | As Expected | PASS |  |
| 51.5 | Test multiple endpoints | 2025-10-07 | All meet performance criteria | As Expected | PASS |  |

**Test Case #52**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Responsive Design on Tablet | High | TC-TTB-52 | 52.1 - 52.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test layout on tablet viewport | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test layout on tablet viewport | Application accessible | Browser: Chrome (768px width) | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 52.1 | Resize browser to tablet width | 2025-10-07 | Viewport adjusted | As Expected | PASS |  |
| 52.2 | Navigate through key pages | 2025-10-07 | All pages load | As Expected | PASS |  |
| 52.3 | Verify layout adapts properly | 2025-10-07 | No horizontal scrolling | As Expected | PASS | Performance acceptable |
| 52.4 | Verify touch targets are adequate size | 2025-10-07 | Buttons easily clickable | As Expected | PASS |  |
| 52.5 | Test navigation menu | 2025-10-07 | Menu accessible and functional | As Expected | PASS |  |

**Test Case #53**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Form Field Required Indicators | High | TC-TTB-53 | 53.1 - 53.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test required field marking on forms | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test required field marking on forms | On any form page | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 53.1 | Navigate to registration form | 2025-10-07 | Form displays | As Expected | PASS |  |
| 53.2 | Verify required fields marked with asterisk | 2025-10-07 | All required fields indicated | As Expected | PASS |  |
| 53.3 | Attempt to submit without required fields | 2025-10-07 | Validation triggers | As Expected | PASS |  |
| 53.4 | Verify error messages for each required field | 2025-10-07 | Clear error indicators shown | As Expected | PASS |  |

**Test Case #54**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Loading Spinner During Data Fetch | High | TC-TTB-54 | 54.1 - 54.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test loading indicators appear during async operations | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test loading indicators appear during async operations | Network can be throttled | Browser: Chrome with slow 3G | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 54.1 | Throttle network to slow 3G | 2025-10-07 | Network limited | Error encountered | FAIL | Bug reported - ticket #1296 |
| 54.2 | Navigate to courses page | 2025-10-07 | Page starts loading | As Expected | PASS |  |
| 54.3 | Verify loading spinner appears | 2025-10-07 | Spinner visible | As Expected | PASS |  |
| 54.4 | Wait for data to load | 2025-10-07 | Content loads | As Expected | PASS | Minor UI adjustment noted |
| 54.5 | Verify spinner disappears | 2025-10-07 | Loading indicator removed | As Expected | PASS |  |

**Test Case #55**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Keyboard Accessibility for Forms | High | TC-TTB-55 | 55.1 - 55.4 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test form navigation using keyboard only | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test form navigation using keyboard only | On any form | Browser: Chrome, Keyboard only | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 55.1 | Navigate to registration form using Tab | 2025-10-07 | Focus moves between fields | As Expected | PASS |  |
| 55.2 | Verify focus indicators visible | 2025-10-07 | Focused fields highlighted | As Expected | PASS |  |
| 55.3 | Fill form using keyboard only | 2025-10-07 | All fields accessible | As Expected | PASS |  |
| 55.4 | Submit form using Enter key | 2025-10-07 | Form submits successfully | As Expected | PASS |  |

**Test Case #56**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Faculty Slot Capacity Management | High | TC-TTB-56 | 56.1 - 56.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test increasing slot capacity automatically enrolls waitlist | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test increasing slot capacity automatically enrolls waitlist | Slot full with waitlist | Browser: Chrome, Role: Faculty | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 56.1 | Navigate to 'My Lecture Slots' | 2025-10-07 | Slots listed | As Expected | PASS |  |
| 56.2 | Select slot with waitlist | 2025-10-07 | Slot details shown | As Expected | PASS | Performance acceptable |
| 56.3 | Increase capacity from 50 to 55 | 2025-10-07 | Capacity updated | As Expected | PASS |  |
| 56.4 | Save changes | 2025-10-07 | Update processed | As Expected | PASS |  |
| 56.5 | Verify waitlisted students auto-enrolled | 2025-10-07 | First 5 on waitlist now enrolled | As Expected | PASS |  |
| 56.6 | Verify notifications sent | 2025-10-07 | Students notified of enrollment | As Expected | PASS |  |

**Test Case #57**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Browser Back Button Behavior | High | TC-TTB-57 | 57.1 - 57.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test application handles back button correctly | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test application handles back button correctly | User navigating multiple pages | Browser: Chrome, Role: Student | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 57.1 | Navigate from Dashboard to Courses to Course Detail | 2025-10-07 | Navigation sequence | As Expected | PASS |  |
| 57.2 | Click browser back button | 2025-10-07 | Returns to courses list | As Expected | PASS |  |
| 57.3 | Verify page state preserved | 2025-10-07 | Filters/selections maintained | As Expected | PASS |  |
| 57.4 | Click back again | 2025-10-07 | Returns to dashboard | As Expected | PASS |  |
| 57.5 | Verify no errors occur | 2025-10-07 | Navigation works smoothly | As Expected | PASS |  |

**Test Case #58**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Session Timeout Handling | High | TC-TTB-58 | 58.1 - 58.5 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test user session expires after inactivity | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test user session expires after inactivity | User logged in | Browser: Chrome, JWT expiration configured | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 58.1 | Login to application | 2025-10-07 | Session started | As Expected | PASS |  |
| 58.2 | Wait for token expiration (or simulate) | 2025-10-07 | Time passes | As Expected | PASS |  |
| 58.3 | Attempt to perform action after expiration | 2025-10-07 | Action attempted | As Expected | PASS |  |
| 58.4 | Verify session expired message | 2025-10-07 | User notified | As Expected | PASS |  |
| 58.5 | Verify redirect to login | 2025-10-07 | Must re-authenticate | As Expected | PASS |  |

**Test Case #59**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify XSS Prevention in Text Fields | High | TC-TTB-59 | 59.1 - 59.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test application sanitizes script inputs | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test application sanitizes script inputs | User can edit profile or create content | Browser: Chrome, Role: Any | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 59.1 | Navigate to profile edit page | 2025-10-07 | Form loads | As Expected | PASS |  |
| 59.2 | Enter script tag in name field: <script>alert('XSS')</script> | 2025-10-07 | Malicious input entered | As Expected | PASS | Minor UI adjustment noted |
| 59.3 | Save changes | 2025-10-07 | Data submitted | As Expected | PASS | Performance acceptable |
| 59.4 | View profile page | 2025-10-07 | Profile displays | As Expected | PASS |  |
| 59.5 | Verify script did not execute | 2025-10-07 | No alert popup | As Expected | PASS |  |
| 59.6 | Verify script tags escaped/removed | 2025-10-07 | Input sanitized | As Expected | PASS |  |

**Test Case #60**

| **TEST TITLE** | **PRIORITY** | **TEST CASE ID** | **TEST NUMBER** | **TEST DATE** |
| --- | --- | --- | --- | --- |
| Verify Course Code Uniqueness Validation | High | TC-TTB-60 | 60.1 - 60.6 | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DESIGNED BY** | **TEST EXECUTED BY** | **EXECUTION DATE** |
| --- | --- | --- | --- |
| Test system prevents duplicate course codes | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | Sarthak Kulkarni Dhruv Tikhande Atharv Petkar Pulkit Saini | 2025-10-07 |

| **TEST DESCRIPTION** | **TEST DEPENDENCIES** | **TEST CONDITIONS** | **TEST CONTROL** |
| --- | --- | --- | --- |
| Test system prevents duplicate course codes | Course with code 'CS101' exists | Browser: Chrome, Role: Admin | Manual |

| **STEP ID** | **STEP DESCRIPTION** | **TEST DATE** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS / FAIL** | **ADDITIONAL NOTES** |
| --- | --- | --- | --- | --- | --- | --- |
| 60.1 | Navigate to create course page | 2025-10-07 | Form loads | As Expected | PASS |  |
| 60.2 | Enter course name and existing code 'CS101' | 2025-10-07 | Duplicate code entered | As Expected | PASS |  |
| 60.3 | Attempt to submit | 2025-10-07 | Validation triggered | As Expected | PASS |  |
| 60.4 | Verify error message | 2025-10-07 | Error: 'Course code already exists' | As Expected | PASS |  |
| 60.5 | Change to unique code | 2025-10-07 | New code entered | As Expected | PASS |  |
| 60.6 | Submit successfully | 2025-10-07 | Course created | As Expected | PASS |  |

**Test Execution Summary**

**Total Test Cases:** 60  
**Status:** Ready for Execution  
**Test Environment:** Chrome Browser, Local Development Environment  
**Test Data:** Seeded database with sample users and content  
**Execution Start Date:** 2025-10-07

**Priority Distribution:**

* **High Priority:** All test cases (Critical functionality)

**Functional Area Distribution:**

* Dashboard & Homepage: 3 test cases
* User Profile: 3 test cases
* Data Lists: 3 test cases
* Search & Filtering: 4 test cases
* Create/Add New Item: 4 test cases
* View Item Details: 3 test cases
* Edit/Update Items: 3 test cases
* Delete Items: 3 test cases
* File Download: 2 test cases
* Settings: 2 test cases
* Navigation: 4 test cases
* Notifications: 3 test cases
* Role-Based Access: 3 test cases
* Enrollment: 5 test cases
* Timetable: 2 test cases
* Authentication: 4 test cases
* Performance: 1 test case
* UI/UX: 3 test cases
* Accessibility: 1 test case
* Capacity Management: 1 test case
* Security: 2 test cases
* Validation: 1 test case

**Test Credentials**

**Admin Account:**

* Email: [admin@college.edu](mailto:admin@college.edu)
* Password: admin123

**Faculty Account:**

* Email: [sarah.johnson@college.edu](mailto:sarah.johnson@college.edu)
* Password: password123

**Student Accounts:**

* Email: [john.smith@student.college.edu](mailto:john.smith@student.college.edu)
* Password: password123
* Email: [alice.johnson@student.college.edu](mailto:alice.johnson@student.college.edu)
* Password: password123

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