**User Acceptance Testing (UAT) Template**

|  |  |
| --- | --- |
| Date | 23 june 2025 |
| Team ID | LTVIP2025TMID54182 |
| Project Name | LearnHub: Your Center for Skill Enhancement |
| Maximum Marks |  |

**Project Overview**

**Project Name:** LearnHub – Online Learning Platform using MERN Stack  
**Project Description:**  
LearnHub is a full-stack, scalable online learning platform built with the MERN stack (MongoDB, Express.js, React.js, Node.js). It provides a role-based digital learning environment with interactive course creation, student enrollment, progress tracking, and certification. Designed for flexibility, it supports self-paced learning, user management, and future integration with live classrooms and payment systems.

**Project Version:** v1.0  
**Testing Period:** 20 June 2025 – 28 June 2025

**Testing Scope**

**Features and Functionalities to be Tested:**

* User Registration and Login (Students, Teachers, Admin)
* Role-Based Dashboards and Access Control
* Course Creation and Management (Teacher)
* Course Enrollment (Student)
* Course Progress Tracking
* Certificate Generation on Completion
* Admin Monitoring Dashboard
* Responsive UI for Desktop and Mobile
* JWT-based Authentication
* RESTful API Integration (Frontend-Backend)
* MongoDB Data Storage and Retrieval

**User Stories/Requirements to be Tested:**

* As a student, I can register/login and enroll in courses.
* As a teacher, I can create, update, and delete courses.
* As an admin, I can view all users and course details.
* As a user, I should be able to securely login with credentials.
* As a student, I can view my progress and download a certificate.

**Testing Environment**

**URL/Location:** <http://localhost:5172> (Development server)  
**Credentials:**

* Admin: admin@example.com / admin123
* Teacher: teacher@example.com / teach123
* Student: student@example.com / stud123

**Test Cases**

| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- | --- |
| TC-001 | User Registration (Student) | 1. Go to Register page 2. Enter student details 3. Submit | Student is registered and redirected to Student Dashboard | As expected | Pass |
| TC-002 | Login and Dashboard Navigation (Teacher) | 1. Go to Login 2. Enter teacher credentials 3. Login and navigate dashboard | Teacher Dashboard is loaded with options to manage courses | As expected | Pass |
| TC-003 | Course Creation (Teacher) | 1. Login as Teacher 2. Navigate to Add Course 3. Submit course details | Course is listed under “My Courses” | As expected | Pass |
| TC-004 | Course Enrollment (Student) | 1. Login as Student 2. Browse course catalog 3. Enroll in course | Course is added to student’s “Enrolled Courses” list | As expected | Pass |
| TC-005 | Course Progress Tracking | 1. Enroll in course 2. Complete sections 3. Check progress | Progress bar updates dynamically | As expected | Pass |
| TC-006 | Certificate Generation | 1. Complete all sections of a course 2. Check “Certificates” | Certificate is auto-generated and downloadable | As expected | Pass |
| TC-007 | Admin Monitoring Panel | 1. Login as Admin 2. Navigate to Dashboard | Admin can view all users, courses, enrollments | As expected | Pass |
| TC-008 | Invalid Login Attempt | 1. Enter wrong email/password 2. Submit | User receives error message | As expected | Pass |
| TC-009 | Mobile Responsiveness | 1. Open platform on mobile device 2. Navigate various sections | UI adjusts and functions properly | As expected | Pass |

**Bug Tracking**

| **Bug ID** | **Bug Description** | **Steps to Reproduce** | **Severity** | **Status** | **Additional Feedback** |
| --- | --- | --- | --- | --- | --- |
| BG-001 | Course progress not saving intermittently | 1. Enroll in course 2. Reload page | Medium | Fixed | Was related to session timeout |
| BG-002 | Password field not masked on register form | 1. Go to Register 2. Type password | Low | Fixed | UI bug with input type |
| BG-003 | Admin dashboard slow to load | 1. Login as admin 2. Go to dashboard | Medium | In Progress | Optimization pending |

**Sign-off**

**Tester Name:** Katumala Keerthana  
**Date:** 16 July 2025  
**Signature:** *Katumala Keerthana*

**Notes:**

* All test cases included both valid and invalid inputs for thorough validation.
* UI responsiveness was tested across Chrome, Firefox, and mobile viewports.
* Postman was used to verify backend endpoints independently.
* Final deployment will be recommended post-resolution of BG-003 performance issue.