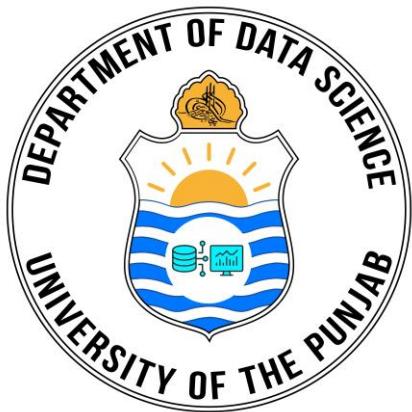


# **Final Year Project User Stories**

## **Smart Evaluation in E-Learning:**

### **A Customized AI-Based Plugin for Moodle**



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## **User Story 1: Sidebar Navigation**

**Title:** Sidebar Navigation

**Priority:** Medium

**User Story:**

As a user, I want to navigate between different sections of the platform using the sidebar, so that I can access features quickly and efficiently.

**Acceptance Criteria:**

- Given the user clicks a sidebar option,
- When the section loads,
- Then the system should display the corresponding content instantly without unnecessary delays.

## **User Story 2: Banner Toggle with Profile & Class Info**

**Title:** Banner Toggle with Profile & Class Info

**Priority:** Low

**User Story:**

As a user, I want to toggle the visibility of the banner while still having access to my profile information, so that I can maximize screen space without losing quick access to important details.

**Acceptance Criteria:**

- **Given** the banner is expanded,
  - **When** the banner is visible,
  - **Then** it should display:
    - Profile picture and full name
    - Section name and class name on the left side.
- **Given** the banner is collapsed,
  - **When** the user hovers over the profile picture,
  - **Then** a tooltip or hover card should appear showing:
    - Full name
    - Email address

- Class and course detail
- The collapse/expand action should not affect other sidebar or content features.

### **User Story 3: AI Quiz Generation from Course Content**

**Title:** AI Quiz Generation from Course Content

**Priority:** Highest

**User Story:**

As an instructor, I want to automatically generate quizzes from my course materials, so that I can save time and ensure question relevance.

**Acceptance Criteria:**

- Given the instructor uploads course notes or selects existing Moodle resources,
- When they click "Generate Quiz",
- Then the system should produce a set of MCQs, fill-in-the-blank, and short-answer questions aligned with the course learning objectives, ready for review before publishing.

### **User Story 4: Customizable Quiz Creation**

**Title:** Customizable Quiz Creation

**Priority:** High

**User Story:**

As an instructor, I want to customize quizzes by selecting specific topics, so that I can tailor assessments to focus on key areas.

**Acceptance Criteria:**

- Given the instructor clicks the "Customize Now" button,
- When they select topics and subtopics,
- Then the system should generate a quiz based on the selected content.

## **User Story 5: Manual Quiz Creation**

**Title:** Manual Quiz Creation

**Priority:** Medium

### **User Story:**

As an instructor, I want to create quizzes manually using an intuitive editor, so that I have full control over every question and answer.

### **Acceptance Criteria:**

- Given the instructor clicks the "Start Creating" button,
- When they use the editor to add questions and answers,
- Then the system should save the quiz for future use or publishing.

## **User Story 6: Publish Quiz**

**Title:** Publish Quiz

**Priority:** Highest

### **User Story:**

As an instructor, I want to publish quizzes after creation or customization, so that students can attempt them only when they are finalized.

### **Acceptance Criteria:**

- Given a quiz is created and ready,
- When the instructor clicks the "Publish" button,
- Then the quiz becomes available for students in the "View Available Quizzes" section.

## **User Story 7: AI Assignment Creation**

**Title:** AI Assignment Creation

**Priority:** High

### **User Story:**

As an instructor, I want to create assignments automatically from provided topics or documents, so that I can design assessments quickly without writing every question

manually.

**Acceptance Criteria:**

- Given the instructor enters a topic or uploads reference materials,
- When they click "Generate Assignment",
- Then the system should create structured assignment questions, editable before publishing.

**User Story 8: Performance Dashboard(optional)**

**Title:** Performance Dashboard

**Priority:** High

**User Story:**

As a user, I want to see a dashboard of my performance, so that I can track my progress over time.

**Acceptance Criteria:**

- Given the user logs in,
- When they access their dashboard,
- Then the system should show performance graphs, AI feedback history, and trends in quiz and assignment scores.

**User Story 9: Announcement Posting**

**Title:** Announcement Posting

**Priority:** Medium

**User Story:**

As an instructor, I want to post announcements to my class, so that I can communicate important updates or reminders.

**Acceptance Criteria:**

- Given the instructor accesses the announcement section,
- When they type a message and click "Post",
- Then the announcement should be displayed to all students in the course.

## **User Story 10: Notification & Messaging**

**Title:** Notification & Messaging

**Priority:** High

**User Story:**

As a user, I want to send and receive messages, so that I can communicate with instructors or students about course-related matters.

**Acceptance Criteria:**

- Given the user accesses the notification section,
- When they reply to or send a message,
- Then the system should deliver the message to the intended recipient.

## **User Story 11: AI Auto-Grading for Descriptive Answers**

**Title:** AI Auto-Grading for Descriptive Answers

**Priority:** Highest

**User Story:**

As an instructor, I want the system to grade descriptive answers using AI, so that I can provide timely and consistent feedback to students.

**Acceptance Criteria:**

- Given a student submits a descriptive answer,
- When the AI evaluates the content,
- Then the system should assign a score based on relevance, completeness, and clarity, along with constructive feedback.

## **User Story 12: Automated Feedback Delivery**

**Title:** Automated Feedback Delivery

**Priority:** High

**User Story:**

As a student, I want to receive AI-generated feedback instantly after submitting an

assignment or quiz, so that I can understand my mistakes and improve.

**Acceptance Criteria:**

- Given the student completes an assessment,
- When AI grading is complete,
- Then the system should display the score and detailed improvement suggestions in real time.

### **User Story 13: Access Course Sections**

**Title:** Access Course Sections

**Priority:** High

**User Story:**

As a student, I want to navigate between course sections (quizzes, assignments, gradebook) using the sidebar, so that I can easily access learning materials.

**Acceptance Criteria:**

- Given I'm logged in as a student,
- When I click a sidebar option,
- Then the system displays the corresponding section.

### **User Story 14: Attempt Quiz**

**Title:** Attempt Quiz

**Priority:** Highest

**User Story:**

As a student, I want to attempt only published quizzes using a user-friendly interface, so that I can submit answers smoothly.

**Acceptance Criteria:**

- Given I select a published quiz,
- When I click "Start Quiz",
- Then the system displays questions (sequentially or all at once) with a timer if applicable, and a submission option.

## **User Story 15: View Quizzes**

**Title:** View Quizzes

**Priority:** Highest

As a student, I want to see all published quizzes, so that I can learn from that.

**Acceptance Criteria:**

- Given I access the "View Quizzes" section,
- When the system loads,
- Then I see a list of attempted quizzes, completion status, and maximum scores, showing only those marked as published.

## **User Story 16: Gradebook Dashboard**

**Title:** Gradebook Dashboard

**Priority:** High

**User Story:**

As a student, I want to view my grades and performance trends in a dashboard, so that I can monitor my progress over time.

**Acceptance Criteria:**

- Given I open the "Gradebook" section,
- When the page loads,
- Then I see current scores, performance graphs, and class average comparisons (if enabled).

## **User Story 17: Instant Feedback**

**Title:** Instant Feedback

**Priority:** Highest

### **User Story:**

As a student, I want immediate AI-generated feedback after submitting an assessment, so that I can learn from my mistakes.

### **Acceptance Criteria:**

- Given I submit an assessment,
- When AI evaluates my answers,
- Then I see a score breakdown and detailed suggestions for improvement.

## **User Story 18: Review AI Grade Feedback**

**Title:** Review AI Grade Feedback

**Priority:** High

### **User Story:**

As a student, I want to request a recheck of my AI-generated grade if I am not satisfied, so that grading feels fair.

### **Acceptance Criteria:**

- Given I navigate to "Feedback History",
- When I select a quiz or assignment,
- Then I see past scores and feedback, with an option to request a recheck.

## **User Story 19: Moodle Integration for AI Features**

**Title:** Moodle Integration for AI Features

**Priority:** Highest

### **User Story:**

As an admin, I want AI features integrated directly into Moodle's course pages, so that instructors and students can use them without leaving the LMS.

### **Acceptance Criteria:**

- Given a Moodle course is active,

- When AI quiz or grading tools are enabled,
- Then instructors and students should be able to access AI tools directly from the course interface.