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# Modules

The project will be divided into 4 Major Modules.

1. Content Generation and Recommendation Engine (CGRe)
   1. Content Generation
   2. Content Recommendation
2. AI Assisted Evaluation & Preparation System
3. Data Analytics
4. Operational Tasks

# AI Assisted Evaluation

## 1. Peer Assessment

**Process Overview**

When students submit an assessment, they are asked if they would like to receive optional peer feedback.

If they opt-in, the assignment is randomly assigned to another student for review.

Students can choose either Yes or No based on their preference. Emphasizing that feedback is optional and won’t impact grades reassures them.

If they choose “***Yes***,” their assignment will be routed for peer review, where the peer reviewer is guided by a simple rubric or feedback prompts.

Prompts may include questions like:

* + - “What’s the strongest aspect of this assignment?”
    - “Is there any part that could be clearer or more detailed?”
    - “Any suggestions for improvement?”

The feedback remains anonymous to reduce any potential bias and create a safe space for open, honest suggestions.

When peer feedback is completed, the student is notified and can review it in their dashboard.

They’ll receive a summary of key points with the option to reflect on or save the feedback for future reference.

Make it clear in the system that opting for peer review is for learning enhancement only and does not impact grades or evaluations.

**AI Integration**

Sarah submits her assignment and opts in for peer feedback. AI identifies a peer who has shown strong skills in similar areas and assigns Sarah’s work to that peer. (Peer Matching).

As the reviewer completes feedback, AI checks tone for clarity and positivity.

## 2. Self-assessment

**Process overview** Students take an AI-generated quiz based on lecture topics.

After submission, the AI evaluates their answers and provides immediate feedback on strengths and areas for improvement.

The AI analyzes performance patterns to identify individual strengths and weaknesses, allowing the LMS to recommend tailored resources, practice exercises, or tutorials for personalized learning.

If a student struggles with specific concepts, the system can offer additional practice questions or simpler explanations, helping them understand the material before progressing to more complex topics.

If a student scores below a set threshold, the AI adjusts the content to their level, providing simpler explanations or extra practice. This rapid feedback enables students to improve without waiting for instructor reviews.

User Story Flow:

The student navigates to the LMS login page and enters their credentials.

Upon successful authentication, the dashboard appears.

The dashboard shows an overview of the students’ enrolled modules, upcoming deadlines, recent feedback, and a summary of their progress.

Notifications display recent evaluations completed by AI, any peer review, indicating assignments that require attention.

The student clicks on a specific course module, which expands to show assignments, quizzes etc.

For each assessment, the status (e.g., “Not Started,” “In Progress,” “Submitted,” or “Graded”) is displayed.

For assignments that have been evaluated, the student clicks to view detailed AI feedback or any peer feedback.

AI feedback includes highlighted areas for improvement, scores, and a summary of concept mastery.

If the AI evaluation indicates areas for improvement in quizzes or mockups, the student can access personalized study resources or recommendations.

The student can then attempt practice quizzes or revise and resubmit mockups based on AI suggestions.

The dashboard updates the students’ progress, with an option to view an in-depth analysis of their strengths and weaknesses across different modules, informed by AI insights.