

ENSF-381: Assignment 1

Winter 2025

Department of Electrical and Software Engineering

Schulich School of Engineering

Due: February 7, 2025 at 11:59 PM

Purpose:

The purpose of this assignment is to build the front-end of a Learning Management System (LMS). The focus will be on designing and organizing HTML components to simulate an LMS interface for student users.

Administrative Details:

- The submission should be a single compressed file (.zip) containing the complete source code and resources (e.g., images) ready for execution without modifications.
- Name the submitted zip file as: Assignment1_ENSF381_Section#_Group#. For example: Assignment1_ENSF381_L01_Group01.
- When working in a group, submit ONLY ONE copy; do not submit separate copies.
- Include the group members' names and UCIDs at the top of the main HTML file (index.html) as source code comments.

Specifications:

The goal is to create a visually appealing and user-friendly LMS with the following pages: **Homepage, Login Page, Course View, Attempt Quiz, and Leaderboard**. Focus solely on the HTML structure; styling (CSS) will be addressed in future assignments.

File Organization - 5 Marks:

Organize your files as follows in a dedicated project directory:

- index.html: The homepage of the Food Ordering and Delivery application.
- login.html: The login page.
- course_view.html: The course view page for students.
- attempt_quiz.html: The page where students attempt quizzes.
- leaderboard.html: The leaderboard page.
- styles.css: An empty file for styling (to be used in the next assignment/s).

Home page (index.html) - 5 Marks:

Requirements:

Create the homepage layout with HTML, including:

- Introduce the LMS, its purpose, and its key features (e.g., managing courses, quizzes, and tracking performance).
- Navigation links to `login.html`, `leaderboard.html`, and a brief "About LMS" section.

Structure:

`<header>`: Contains the LMS logo and name. Place the logo at the top left and the name immediately after.

`<div>`: The navigation links to other pages are placed directly below the header.

`<main>`: Includes:

- *About LMS Section*: Describe the features and benefits of the system.

`<footer>`: Displays a copyright notice.

Login Page (login.html) - 10 Marks:

Requirements:

- A login form with fields for username and password.
- A login button which, on clicking, takes the student to the `course_view.html` for navigation.

Structure:

`<header>`: Logo and LMS name.

`<div>`: Navigation links (e.g., back to homepage).

`<main>`: Includes:

- Username field.
- Password field (masked).
- Login button.
- Forgot Password link (non-functional)

`<footer>`: Displays a copyright notice.

Course View (course_view.html) - 30 Marks:

Requirements:

- The current term which is going on; can be changed from a drop-down menu. Keep the last 4 terms in the menu. (Currently does not affect the courses being displayed below)
- Displays a view of courses (3 tiles in a row).
 - A section with heading “Enrolled” which displays the courses in which the student has enrolled. Keep 5 courses.
 - A section with heading “Pending” which displays the courses in which the student was invited but not yet confirmed by the student. Keep 2 courses.
- Each tile includes:
 - Course name and code along with an image.
 - For enrolled courses, a hyperlink to attempt a quiz (navigates to `attempt_quiz.html`).
 - For pending invitation courses, two buttons to Accept (Green) or Decline (Red). Both buttons would be non-functional.

Structure:

`<header>`: Logo and application name.

`<div>`: Navigation links (e.g., back to homepage).

`<main>`: Includes:

- The term selected.
 - Tiled layout with course details in two sections – Enrolled and Pending
- <footer>: Displays a copyright notice.

Attempt Quiz Page (attempt_quiz.html) - 30 Marks:

Requirements:

- Display two quiz questions (hardcoded) on the same page.
- First question includes multiple-choice options with radio buttons.
- Second question includes multiple-choice options with checkboxes.
- A “Submit Answer” button (non-functional) for each question separately.
- A “Finish Quiz” button (navigates to `leaderboard.html`)

Structure:

<header>: Logo and application name.

<div>: Navigation links (e.g., back to homepage).

<main>: Includes:

- An image banner that spans the width of the screen
- The course code and name written in large visible font.
- A section displaying the following details about the quiz:
 - Topic of Quiz
 - Deadline for attempting the quiz
 - Number of attempts allowed
- The quiz questions as described in the requirements
- Two Submit Answer buttons and one Finish Quiz button.

<footer>: Displays a copyright notice.

Leaderboard Page (leaderboard.html) - 20 Marks:

Requirements:

The leaderboard should include the following features:

- A *title row* that spans multiple columns (merged cells).
- A *rank column* with unique background colors (e.g., gold for 1st place, silver for 2nd, bronze for 3rd). Merge these cells vertically if more than one student is tied for the same score.
- A *profile picture column* for each participant, displaying an image.
- Columns for *Name*, *Total Score*, and *Course*.
- Rows for participants with alternating background colors (white and light gray) for better readability.

Structure:

<header>: Logo and LMS name.

<div>: Navigation links (e.g., back to homepage).

<main>: Includes a table with:

- A header row with a merged cell displaying the title "Leaderboard."
- Columns:
 - Rank (colored cells for top 3 ranks). There should be two students tied for 2nd position.
 - Profile Picture (image).

- Name (participant's name).
 - Total Score (numeric score).
 - Course (name of the course associated with the score).
 - Alternating row colors for readability – white and light gray.
- <footer>: Displays a copyright notice.