**FALL 2023 WDM**

PROJECT: PERFORMANCE OF MSC Academic Program (COMPUTER SCIENCE)

**TA:**

**Homepage:**

* Provide an overview of the academic program and its objectives.
* Highlight the importance of performance measurement and assessment.

**Academic Program:**

* Display a list of Program Objectives (POS) along with their descriptions.
* Allow users to view the courses offered in the program.

**Courses:**

* Present a list of courses within the program.
* Show the course objectives, content, and any additional information.
* Enable users to access detailed information about each course.

**Mapping:**

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* Provide a visual representation or a table to show how each course covers the program objectives.
* Allow users to easily identify which courses align with specific objectives.

**Exams and Assessments**:

* Allow the creation of exams or assessments to measure performance indicators.
* Enable the association of specific exams with relevant courses and program objectives.
* Provide a way to track and record student performance in these exams.

**User Accounts:**

* Implement user authentication and account creation for students, instructors, and administrators.
* Maintain separate roles with different levels of access and permissions.
* Allow students to view their exam results and overall performance.

**Reporting and Analytics:**

* Generate reports and visualizations to present program performance data.
* Provide insights on individual student performance, course effectiveness, and program evaluation.
* Display statistical information, charts, and graphs to aid analysis.

**Feedback and Communication:**

* Allow students, instructors, and administrators to communicate through messaging or discussion forums.
* Provide a feedback mechanism to gather input on the program, courses, and exams.

**Administration Panel:**

* Develop an administrative interface to manage courses, program objectives, exams, and user accounts.
* Enable administrators to add, modify, or remove courses and program objectives as needed.
* Allow customization of the website's content, settings, and permissions.

**Responsive Design and Accessibility:**

* Ensure the website is responsive and accessible across different devices and screen sizes.
* Follow web accessibility guidelines to accommodate users with disabilities.

The website should have different roles to accommodate various users and their specific responsibilities. Here are the key roles that can be implemented in the website:

**Student:**

* Students are the primary users of the website.
* They can view the academic program, its objectives, and the courses offered.
* Access course materials, including content, syllabi, and resources.
* Take exams or assessments to measure their performance.
* View their exam results and overall progress.
* Interact with instructors and peers through communication features.

**Instructor:**

* Instructors are responsible for teaching courses within the academic program.
* They can create and manage course content, objectives, and assessments.
* Associate program objectives with specific courses.
* Design and create exams or assessments to measure performance indicators.
* Grade student exams and provide feedback.
* Monitor student performance and progress.
* Interact with students through messaging or discussion forums.

**Administrator:**

* Administrators have overall control and management of the website.
* They can add, modify, or remove courses and program objectives.
* Manage user accounts and permissions.
* Generate reports and analytics on program performance.
* Customize website settings, including design and layout.
* Handle technical aspects and ensure website functionality and security.

**Program Coordinator:**

* The Program Coordinator is responsible for overseeing the academic program as a whole.
* They ensure that the program objectives are aligned with the overall goals and vision of the institution or department.
* Collaborate with instructors to develop and update course content, objectives, and assessments.
* Conduct regular reviews and evaluations of the program to identify areas for improvement.
* Coordinate with instructors, administrators, and other stakeholders to ensure smooth program implementation.
* Monitor student performance data and provide guidance or support to instructors and students as needed.
* Serve as a point of contact for students, addressing their concerns or inquiries related to the program.
* Work closely with the administrators to make strategic decisions regarding the program's development and growth.

**Quality Assurance Officer:**

* The Quality Assurance Officer is responsible for ensuring the quality and effectiveness of the academic program and its assessments.
* Develop and implement quality assurance processes and policies to maintain standards.
* Review and validate course content, objectives, and assessments to ensure alignment with program objectives and industry standards.
* Conduct audits or evaluations of courses and assessments to identify areas for improvement.
* Collaborate with instructors and administrators to address any deficiencies or gaps in the program.
* Monitor and analyze student performance data to identify trends and patterns.
* Provide recommendations for enhancing teaching methods, assessments, and overall program effectiveness.
* Stay updated with educational best practices and industry trends to incorporate relevant improvements into the program.
* Collaborate with Program Coordinators and administrators to ensure compliance with accreditation and regulatory requirements.

Both the Program Coordinator and Quality Assurance Officer play crucial roles in maintaining the quality, relevance, and effectiveness of the academic program. They work together with instructors, administrators, and students to continuously improve the program's outcomes and ensure its alignment with the institution's goals and standards.