Learning Management System (LMS)

Technological Requirements: HTML, CSS, JAVASCRIPT, BOOTSTRAP, .NET, SQL SERVER, ENTITY FRAMEWORK, ASP.NET CORE, C#

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System Purpose and Scope:

enhance learning experiences, streamline course management, and facilitate effective communication.

· What types of data will the system manage? (e.g., course content, student records, grades, assignments)

· Who are the main users of the system? (e.g., students, instructors, administrators, support staff)

Functional Requirements:

Data Management:

- Collect, Read, Retrieve, and Store course content, student records, grades, and assignments securely and efficiently.

- Facilitate data entry and updates by authorized users.

- Enable data search and filtering based on various criteria (e.g., course name, student ID, grade range).

- Implement robust data backup and disaster recovery procedures to ensure data integrity and availability.

Learning Support:

- Provide course management functionalities including course creation, editing, and deletion.

- Facilitate communication and collaboration among students and instructors through discussion forums and messaging.

- Allow for remote learning and assessments through online quizzes, assignments, and video lectures.

Administrative Functions:

- Manage user accounts and roles including students, instructors, and administrators.

- Facilitate course registration and enrollment processes for students.

- Generate reports for academic performance, attendance, and compliance with educational standards.

- Track learning materials and resources to ensure availability and proper usage.

Non-Functional Requirements:

Performance: Faster Response and data access. High Speed and Efficient to maintain the patient data

Cost: Development and Implementation cost only. Maintenance and data storage costs.

Usability: User-friendly interface with documentation of the application with sample demo. Application is accessible to all the actors based on their requirements or the content needed for that role.