Southern New Hampshire University

CS 255 Module Two Assignment Template

Functional Requirements

Functional Requirement	Rationale for Requirement	Source(s), APA format
System must have pages dedicated to announcements, learning modules, discussions, assignments, and grades, as well as a home page.	These pages are all important for a student to be able to navigate to in order to complete their coursework.	
The system must have a functional discussion board that allows administrators to post discussion assignments and allow students to make posts and replies.	Discussion posts are a valuable learning tool so it is important that the LMS provides this.	
The system must store student grades and calculate final grades.	Grades measure the completeness of coursework in an LMS so this is an essential requirement.	
The system must integrate a calendar that displays due dates and semester timelines.	It is important that students have a visual aid that can help them plan out their work throughout a course.	
The system must be able to track all data associated with each student through their unique student ID.	It is essential that all data be attached to the student to which it belongs. Keeping track of what data belongs to who using a unique student ID system ensures that students will receive the correct grades/coursework etc.	California Department of Human Resources. (2018, April 18). Learning Management System Requirements. Retrieved March 18, 2022, from https://www.calhr.ca.gov/Documents/LMS%20Functional%20and%20Non_Functional%20Requirements.docx
The system must allow students to register themselves for classes, keeping track of if they meet the prerequisites for the class and allowing or not allowing registration accordingly.	This helps to make the LMS more convenient for students as they are able to complete registration on their own time.	California Department of Human Resources. (2018, April 18). Learning Management System Requirements. Retrieved March 18, 2022, from https://www.calhr.ca.gov/Documents/LMS%20Functional%20and%20Non_Functional%20Requirements.docx

Nonfunctional Requirements

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Nonfunctional Requirement	Rationale for Requirement	Source(s), APA format
The system must support mobile access.	It is important that users be able to access the LMS from anywhere using a mobile device such as a phone or tablet.	
Any downtime that is necessary for maintenance of the LMS must be scheduled at least 24 hours in advance and students must be notified.	This is important because it allows students to plan their work around any maintenance that will require system downtime. Without this, a student may rely on accessing the LMS at a certain time but come to find that they cannot.	California Department of Human Resources. (2018, April 18). Learning Management System Requirements. Retrieved March 18, 2022, from https://www.calhr.ca.gov/Documents/LMS%20Functional%20and%20Non_Functional%20Requirements.docx
System must be able to recognize different types of users such as students, administrators, and technicians and provide the proper level of access depending on login info received.	These different types of users will have different permissions on the LMS so it is essential that the system does not give anyone more or less access than they are supposed to have.	
System must allow organizations to easily make any changes to course content that they see fit.	The organization offering a course should have full control over the content of that course, as well as the ability to update it to better fit any shifting requirements.	Westmoreland, D. (2021, May 12). The 10 most critical LMS requirements for any online training program. eLearning Industry. Retrieved March 18, 2022, from https://elearningindustry.com/lms-requirements-online-training-program-10-critical
System should function properly regardless of the web browser and operating system that the user is using.	It is important that users be able to access the LMS on whichever browser/OS that they prefer or have access to.	
System should not take longer than 10 seconds to load and display any information requested or complete any action performed.	This will help to minimize user frustration as well as make it faster for students to be able to complete their coursework.	CS 255 Sample Business Requirements Document for an ATM

Assumptions

Assumption	Rationale for Requirement	Source(s), APA format
The user is connected to the internet.	Without being connected to the internet, the user will not be able to access any information	

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	from the system, so this is essential for use.	
The user has an account in the system, whether it be a student, faculty, or technician account.	The user will not be able to get past the login screen without valid credentials, so this is assumed for all parts of the system past this point.	

Limitations

Limitation	Rationale for Requirement	Source(s), APA format
Large central server required for storing all of the necessary data for the LMS.	LMS's are typically hosted on a company's server. Therefore, the company must fulfill large storage requirements, whether it be on a physical or cloud-based server.	Colman, H. (2021, September 27). LMS requirements: A 15-point checklist. Explore the eLearning world with us. Retrieved March 20, 2022, from https://www.ispringsolutions.com/blog/lms-requirements/
Requires users to be able to use an internet enabled device.	Since the system is only accessible online, its use is limited to users who have access to an internet enabled device.	