# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Administrator | The system must allow a student to be tracked using the UEID provided by the LMS core system in order to meet the maximum degree of accessibility. It must be possible for administrators to add, remove, and modify settings. | Foreman, S. D., & Association for Talent Development. (2018). *The LMS Guidebook : Learning Management Systems Demystified*. Association For Talent Development. |
| User Registration | Students must be able to self-register for their classes using the system's course catalog. In case they have trouble self-registering, students should have a mechanism to receive assistance. | Foreman, S. D., & Association for Talent Development. (2018). *The LMS Guidebook : Learning Management Systems Demystified*. Association For Talent Development. |
| Notifications | Students must receive reminders from the system. The system must notify the administration of the need for a reasonable accommodation. There must be a method for teachers and students to communicate with one another in case problems emerge. | Learning Management  System Requirements.  (2018, April 18).  Retrieved January 16,  2022, from  https://www.calhr.ca.go  v/Documents/LMS |
| Course Catalog | The system must create a course catalog to let students select courses from a list of options. Students must be informed via the system of any requirements needed for their chosen course.  Modules of instruction and artifacts must be kept in the system's archive. | Learning Management  System Requirements.  (2018, April 18).  Retrieved January 16,  2022, from  https://www.calhr.ca.go |
| Performance Tracking / Reporting | The system must produce student reports. Updates on their progress and individual transcripts must be available to students. A course roster must be shown and exported by the system. The system must support multiple search criteria by course attributes. | Learning Management  System Requirements.  (2018, April 18).  Retrieved January 16,  2022, from  <https://www.calhr.ca.go>  Avelino, J. (2022, July 11). LMS Requirements Checklist. EdApp Microlearning Blog. Retrieved September 9, 2022, from https://www.edapp.com/blog/lms-requirements-checklist/ |
| Student Portal | Organize classes and tasks. Post the schedule, objectives, and curriculum for the course. Offer interactive games and exercises like polls, surveys, and tests. Multimedia course materials can be uploaded and downloaded. Hold online meetings. Communicate with students and with the instructor through messaging. Transmit audio, video, and text feedback from the instructor to every student. Post comments on discussion topics about multimedia. To facilitate breakout sessions and group projects for the class, create student groups and collaborative workspaces. | Foreman, S. D., & Association for Talent Development. (2018). *The LMS Guidebook : Learning Management Systems Demystified*. Association For Talent Development. |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Capacity | The capacity of the system needs to be able to grow in tandem with the number of users and the amount of data that is stored inside it. | Foreman, S. D., & Association for Talent Development. (2018). The LMS Guidebook : Learning Management Systems Demystified. Association For Talent Development.  Learning Management  System Requirements.  (2018, April 18).  Retrieved January 16,  2022, from  https://www.calhr.ca.go |
| Security | The presence of security makes it possible to defend the system against assaults that can put sensitive data at risk. A wise precaution would be to create an authorization page on which a username and password authentication system would be established. Someone else is responsible Someone also has to be responsible for ensuring that all software security protocols are updated regularly. | Avelino, J. (2022, July 11). LMS Requirements Checklist. EdApp Microlearning Blog. Retrieved September 9, 2022, from https://www.edapp.com/blog/lms-requirements-checklist/ |
| Reliability | It is critical that users be able to access the system regardless of the platform that they are operating on. An unsatisfactory user experience has the potential to make the successful adoption of an LMS more challenging. It is possible for a system, which has poor usability and accessibility, to actually work against the aims that it was designed to achieve. | Francis, K. (2021, May 12). Major Goals And Expectations Of eLearning. eLearning Industry. Retrieved September 9, 2022, from https://elearningindustry.com/goals-and-expectations-of-elearning-major |
| Usability | The LMS ought to be user-friendly for both administrators and students. Making sure the system is simple to use and does not alienate users by choosing an intuitive LMS product that doesn't require much user education. The most popular aspects, such as the leaderboards, debates, activity progress, and courses, must also be simple for everyone to use and understand. | Foreman, S. D., & Association for Talent Development. (2018). The LMS Guidebook : Learning Management Systems Demystified. Association For Talent Development.  Avelino, J. (2022, July 11). LMS Requirements Checklist. EdApp Microlearning Blog. Retrieved September 9, 2022, from https://www.edapp.com/blog/lms-requirements-checklist/ |
| Availability | Users can become increasingly annoyed during periods of downtime. It's possible that the user's experience will suffer if they are unable to access their information at the appropriate times. The severity of this problem can be reduced by planning system maintenance at least one day in advance. Users are able to make preparations in advance when a schedule is in place. The system ought to be developed in such a way as to reduce the amount of time spent on maintenance. When a maintenance period is scheduled, the system should not be taken offline for a lengthy amount of time during that maintenance period. | Francis, K. (2021, May 12). Major Goals And Expectations Of eLearning. eLearning Industry. Retrieved September 9, 2022, from https://elearningindustry.com/goals-and-expectations-of-elearning-major |
| Performance | The system ought to be able to maintain its speed even when subjected to pressure from a number of users. Access should not be restricted to users. It is preferable for the system to be scalable in a manner that would enable it to expand and respond to changes that may be anticipated based on the experiences of the users. Because of this, the process of adding or removing features shouldn't be as difficult, and it won't necessarily put the system at risk. | Francis, K. (2021, May 12). Major Goals And Expectations Of eLearning. eLearning Industry. Retrieved September 9, 2022, from https://elearningindustry.com/goals-and-expectations-of-elearning-major |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
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| Ease communication between students and teachers | A learning management system gives students the ability to receive immediate feedback on their work. The student can also find out how well he performed on an exam or a homework assignment as soon as he is finished with the task as soon as it is assigned to him. It would be helpful to be able to ask direct questions regarding projects and assignments to others who are taking classes or teaching classes online. Instead of utilizing the web to check your email, it is advantageous to have an email system that is built into the system and tied to the security of the system. This is useful for situations in which a user needs to email someone but does not want to talk to that person through chat. | Francis, K. (2021, May 12). Major Goals And Expectations Of eLearning. eLearning Industry. Retrieved September 9, 2022, from https://elearningindustry.com/goals-and-expectations-of-elearning-major |
| Handle high traffic | We need to have a system that is capable of managing the workload generated by a large number of users, as well as what those users do while logged into the system and their capacity to carry out LMS tasks. | Francis, K. (2021, May 12). Major Goals And Expectations Of eLearning. eLearning Industry. Retrieved September 9, 2022, from https://elearningindustry.com/goals-and-expectations-of-elearning-major |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
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| Deliver and Implement Content | With how quickly things change, there can be a difference between training teachers and learning new skills. Teachers have a hard time coming up with and setting up different ways for students to learn that take into account student needs, teacher style, and the technical capacity of the organization. For example, it's hard to make training content that can be split up into separate training sessions. Will teachers be in charge of a training program or lesson plan and be able to set due dates for tasks in the program or plan? Will teachers be able to send lesson content to virtual classrooms or upload videos, audio, or text files outside of the syllabus | (What Are the Disadvantages of LMS? - Read #1 Learning Management Systems Software Articles | 2022, n.d.) |
| Might Not Fit All the Ways People Learn | The elder generation might not be as skilled at using computers as the younger generation is. Even if your institute employs a very capable chemistry instructor, he might not be able to present content effectively using an LMS platform due to a lack of experience with it. Various students have various learning preferences. While some people choose to listen attentively to their teachers' lectures, others feel the need to interrupt them frequently with inquiries. While traditional learning gives students this independence, online learning may feel constricting to those who learn best through interaction. | (What Are the Disadvantages of LMS? - Read #1 Learning Management Systems Software Articles | 2022, n.d.) |