# CS 255 Module Two Assignment YOUser University

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## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Course Content Management | YOUser University requires robust capabilities for educators to create, organize, and manage diverse learning materials such as text, multimedia, and assessments. This feature ensures flexibility and richness in course delivery. | Helvacılar, A., & Helvacılar, A. (2023, December 13). *How learning management systems are shaping education.* Sertifier. https://sertifier.com/blog/how-learning-management-systems-are-shaping-education/ |
| Mobile Compatibility | Supporting mobile devices extends accessibility, allowing students to learn anytime, anywhere, and optimizing the learning experience for diverse user preferences. | Helvacılar, A., & Helvacılar, A. (2023, December 13). *How learning management systems are shaping education.* Sertifier. https://sertifier.com/blog/how-learning-management-systems-are-shaping-education/ |
| Assessment & Certification | The ability to create and manage assessments and issue certificates online is crucial for validating learning outcomes and providing recognition to students upon course completion. | Helvacılar, A., & Helvacılar, A. (2023, December 13). *How learning management systems are shaping education.* Sertifier. https://sertifier.com/blog/how-learning-management-systems-are-shaping-education/ |
| Communication & Collaboration Tools | Facilitating seamless interaction between instructors and students, as well as among learners, enhances engagement and supports collaborative learning experiences. | Helvacılar, A., & Helvacılar, A. (2023, December 13). *How learning management systems are shaping education.* Sertifier. https://sertifier.com/blog/how-learning-management-systems-are-shaping-education/ |
| User Management | Efficiently managing user registrations, profiles, and access permissions ensures personalized learning experiences and streamlined administrative processes. | Helvacılar, A., & Helvacılar, A. (2023, December 13). *How learning management systems are shaping education.* Sertifier. https://sertifier.com/blog/how-learning-management-systems-are-shaping-education/ |
| Data-Driven Insights | Providing analytics on student performance helps instructors identify learning gaps and adjust teaching strategies, thereby improving overall educational outcomes. | Neverdal, R. (2024, May 15). *The power of learning management systems (LMS)* - FrontCore. FrontCore. https://frontcore.com/blog/learning-management/the-power-of-learning-management-systems-lms/ |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Security | Implementing strong data encryption and compliance with GDPR ensures the confidentiality and integrity of student data, fostering trust and compliance with legal requirements. | *Data protection and privacy in LMS: What makes a solution secure?* (n.d.). https://www.opigno.org/blog/data-protection-and-privacy-lms-what-makes-solution-secure |
| Scalability | Choosing a cloud-based hosting model ensures the LMS can scale seamlessly with increasing user demands, supporting YOUser University's growth without compromising performance. | Kvartalnyi, N., & Kvartalnyi, N. (2024, May 28). Key LMS requirements You should know | Inoxoft. Inoxoft |. https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/ |
| Performance | Ensuring the LMS operates efficiently across various browsers and operating systems, with minimal latency (e.g., requiring 500+ Kbps internet connection), enhances user experience and accessibility. | Kvartalnyi, N., & Kvartalnyi, N. (2024, May 28). Key LMS requirements You should know | Inoxoft. Inoxoft |. https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/ |
| Usability | Designing an intuitive user interface and providing user training enhances usability, reducing the learning curve for students and instructors using the LMS. | Kvartalnyi, N., & Kvartalnyi, N. (2024, May 28). Key LMS requirements You should know | Inoxoft. Inoxoft |. https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/ |
| Compliance (SCORM/GDPR/FERPA) | Adhering to FERPA regulations protects student privacy rights regarding educational records, ensuring YOUser University complies with federal laws. | Kvartalnyi, N., & Kvartalnyi, N. (2024, May 28). Key LMS requirements You should know | Inoxoft. Inoxoft |. https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/ |
| Reliability | Ensuring high uptime and minimal system downtime ensures uninterrupted access to learning materials and assessments, supporting continuous learning activities. | Kvartalnyi, N., & Kvartalnyi, N. (2024, May 28). Key LMS requirements You should know | Inoxoft. Inoxoft |. https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/ |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
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| Learning Diversity | Acknowledging that students learn differently necessitates providing varied learning materials and interactive tools (e.g., videos, quizzes) to accommodate diverse learning styles. | 10 LMS course assumptions to avoid in an E-Learning course. (n.d.). Coggno.com. https://coggno.com/blog/common-lms-course-assumptions/ |
| Active Participation | Understanding that active participation enhances learning outcomes emphasizes the incorporation of interactive elements (e.g., discussions, hands-on tasks) within the LMS. | 10 LMS course assumptions to avoid in an E-Learning course. (n.d.). Coggno.com. https://coggno.com/blog/common-lms-course-assumptions/ |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Technical Expertise Required | Recognizing that configuring and customizing the LMS may require technical skills (e.g., IT support for setup and maintenance) poses a potential challenge for YOUser University's administrative staff. | Team, G. (n.d.). Pros & Cons of Learning Management Systems | GoGuardian. https://www.goguardian.com/blog/learning-management-systems-pros-cons |
| Administrative Cost & Setup Time | **Implementing the LMS involves initial setup costs and requires time for training faculty and transitioning from traditional teaching methods, impacting YOUser University's budget and operational timeline.** | Team, G. (n.d.). Pros & Cons of Learning Management Systems | GoGuardian. https://www.goguardian.com/blog/learning-management-systems-pros-cons |