# CS 255 Module Two Assignment

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2-2 Assignment Determining Requirements

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| User Authentication and Authorization | It's vital to secure LMS access. Sensitive data will be protected with proper authorization and authentication. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements” |
| Course Management | By streamlining course materials, assignments, and assessment updates, efficient course management promotes seamless learning. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements” |
| User Interaction Tools | Discussion boards, live chat, and message capabilities should all be available through the learning management system (LMS) to encourage participation and teamwork among students. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements” |
| Grading and Assessment | For accurate student assessment, an effective grading system is essential. Multiple grading techniques, including weighted grading and rubrics, ought to be supported by the system. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements.” |
| Content Repository | Access for teachers and students is made easier with the help of a multimedia material repository. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements.” |
| Reporting and Analytics | With the help of extensive reporting capabilities, administrators, teachers, and students may monitor progress and make data-driven decisions. | “Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. https://coara.co/blog/business-requirements-vs-functional-requirements.” |
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## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Performance | Even with several users or students working at once, the system ought to be quick. System ought to function across many devices and platforms. | “Ayesha Habeeb Omer, (Sept. 28,2017) LMS Features: What To Look For In A Learning Management System.https://elearningindustry.com/lms-features-what looklearning-managent-system” |
| Security | Defends against attacks or unauthorized entry. safeguards user data and information. User protection with a password and username. Additionally, security software needs to be updated. | “Pappas, C. (2021, May 12). 8LMS security featuresto keep your data safe and sound. eLearning Industry. Retrieved January 16, 2022, from https://elearningindustry.com/learningmanagement-systemlms-security-featureskeep-data-safe-sound” |
| Usability | The user will have an easy-to-use environment as a result. The user can simply traverse the website without assistance thanks to its straightforward functioning. Students' learning is strongly impacted by usability; in a setting that is easy to use, they are more likely to return to class. | “Ayesha Habeeb Omer, (Sept. 28,2017) LMS Features: What To Look For In A Learning Management System.https://elearningindustry.com/lms-features-what looklearning-managent-system” |
| Scalability | Every user must be able to access the application without any problems. The more data and users the system receives, the more space it will need to grow. | “Nick Santaniello, (Apr. 20, 2018)The 10 Most Critical LMS Requirements For Any Online Training Programhttps://elearningindustry.com/lms-requirements-onlinetraining-program-10-critical” |
| Reliability | Code errors are minimized to improve dependability. The success of an LMS deployment can be hampered by a poor user experience. | “LMS eLearning Industry. Retrieved January 16, 2022, from https://elearningindustry.com/ways-measurelearning-managementsystem-lms-reliabilitycheck-fulfills-businessgoals”. |
| Compatibility |  |  |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| User Engagement | The success of the project depends on instructors and students actively using the LMS. | “Usmani, F. (2023, March 18). Assumptions and constraints in project management. PM Study Circle. https://pmstudycircle.com/assumptions-and-constraints-in-project-management/” |
| Compatibility with Existing Systems | To prevent interfering with user experiences, the LMS must be interoperable with all current university systems, such as student information systems and login procedures. | “Usmani, F. (2023, March 18). Assumptions and constraints in project management. PM Study Circle. https://pmstudycircle.com/assumptions-and-constraints-in-project-management/” |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Fixed Launch Date | To prevent any disruptions to the course delivery schedule, the LMS needs to be operational at the beginning of the academic semester. | “Usmani, F. (2023, March 18). Assumptions and constraints in project management. PM Study Circle. https://pmstudycircle.com/assumptions-and-constraints-in-project-management/” |
| Data Migration Window | The time frame for moving user data and course materials to the new LMS is constrained. Any delay could affect how the course proceeds. | “Usmani, F. (2023, March 18). Assumptions and constraints in project management. PM Study Circle. https://pmstudycircle.com/assumptions-and-constraints-in-project-management/” |

**References:**

“Dimitris. (2020, August 27). Business requirements vs functional requirements. coara. <https://coara.co/blog/business-requirements-vs-functional-requirements>

Dalbey, J. (1998, September). Non-functional Requirements1998. Nonfunctional requirements. <http://users.csc.calpoly.edu/~jdalbey/SWE/QA/nonfunctional.html>

Usmani, F. (2023, March 18). Assumptions and constraints in project management. PM Study Circle. https://pmstudycircle.com/assumptions-and-constraints-in-project-management/”