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# 11/9/2024

CS-255

# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| User management | User management is important for adding or removing users and assigning them different roles. Without good user management the lms could be seceptible to major security without defining user roles users may be able tom access content not meant for them. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Mobile accessibility | The lms should be accessible on all platforms, widows, mac, android, iPhone so users have the ability to access the system from any device. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Support tools | The system must be able to offer support options, the user needs to be able to get needed support such as tutorials training videos and a way for users to contact customer support. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Reports and analytics | Provides details about students activity such as amount of time logged in and time spent working on assignments . | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Course creation and management | Important for instructors to be able to create or modify different aspects of the course when needed. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Gamification tools | Gamification tools are important ways to make learning more fun this keeps students exited about learning. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Hosting model | The system needs to be either cloud based or hosted from internal server | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Security and compliance | The system must be able be able to encrypt data for security of users data. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Reliability and availability | The system needs to be always readily available whenever a user needs it and from any platform. | *LMS Requirements: A Complete Checklist | Coursebox AI*. (2024). Coursebox.ai. <https://www.coursebox.ai/blog/lms-requirements>  ‌ |
| Payment gateways | The system needs to be able to accept payments online or by phone from students paying tuition. | ‌ *LMS Requirements: A Complete Checklist |* Coursebox.ai.  ‌ |
| Scalability | This is needed to determine how well the system can handle increasing workloads by adding more resources. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |
| Reliability | This ensure the system functions correctly and consistently under normal and abnormal conditions. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Faculty and students both can access devices connected to the internet to access the lms | It is necessary to utilize technology for online learning. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |
| The lms must be taught to faculty and students so they can efficiently make use of it. | Faculty development is critical for implementation of the lms. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Online learning offers no in person or face to face learning so the lms needs to be efficient enough to compensate for it. | If there is no face to face learning, the lms needs to offer more support to students for learning. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |
| Company budget for the system | The lms must meet the schools budget while still offering the elements the school needs. | Grow Solutions. (2023, November 17). *Functional and Non-Functional Requirements: The Ultimate Checklist with Examples*. Medium. <https://medium.com/@growsolutions/functional-and-non-functional-requirements-the-ultimate-checklist-with-examples-cde16aba33d7>  ‌ |