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CS-255-System Analysis and Design

Assignment two

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# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Learning Management System (LMS) that allows multiple roles such as Students, Educators and Admins. | This will allow students to learn lesson and professor to educate them at the higher-ed learning. | (Canvas, 2024) |
| Mobile Learning for LMS | This allows full featured on the go learning on a mobile application. | (Canvas, 2024) |
| Usability for LMS dashboard learning that show progress. | Has streamline and hassle-free interface for the user and admins to show the progress of what has or has not been completed. | (Davey, K 2023) |
| Instant Content Delivery | This will share the course as a blueprint to help provide the best curriculum. | (Canvas, 2024) |
| Blended learning that will combine traditional and online content methods in one design. | Having the system allows for traditional based learning while at home helps reduce costs and increase the engagement of learning. | (Davey, K 2023) |
| Open API (Application Programming Interface) allows for more tracking of learning experience over older standards | Open API will help integrate how the learning management system can track additional information like a tin can. | (Davey, K 2023) |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| System Requirements | Not focusing on the LMS system requirements could depend on how smoothly the platform runs. This would have requirement for preferred borrows and internet speed. | (Key LMS requirement you should be aware, 2024) |
| Data Security for the LMS | LMS can have weak security and may need two-factor authentication to help block unwanted data to be access by others. | (Key LMS requirement you should be aware, 2024) |
| Hosting Model being on the cloud. | Having this on an open or private cloud-based host allows for more users to have access. | (Key LMS requirement you should be aware, 2024) |
| Certification on the LMS | The does not retrain certification for some programs like bookkeeping in accounting would not stay on the LMS. | (Key LMS requirement you should be aware, 2024) |
| Accessibility of using the LMS | Being able to use this regardless of ability or disability. Having the chance to use have audio or color schemes to make it easier on the eyes. | (Key LMS requirement you should be aware, 2024(Davey, K 2023) |
| LMS data migration | This would be if the school decided to change from canvas to brightspace. The migration of data from old to new servers would be like starting over. | (Davey, K 2023) |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Unlimited cloud base storage | This would provide unlimited cloud base storage which one would be lent to believe all information is saved for viewing even after a class has ended for additional learning experience. | (Davey, K 2023) |
| Users to have LMS email account to always use. | The email address would continue even after schooling has been completed. This email address would be provided to contact instructors and other students. Also, professional email that would not be crazy usernames. |  |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Pricing | Pricing may not be a transparent and could have higher cost. | (Miller, 2019) |
| Different learning Styles | This could decrease someone’s learning experiences due to the hands-off approach that would accommodate physical skills. Someone that is more visible or audio may have a harder time learning over someone that understand by just reading a book. | (Miller, 2019) |

**References**

*Canvas LMS for higher education: Product*. Instructure. (n.d.). <https://www.instructure.com/higher-education/products/canvas/canvas-lms>

Davey, K. (2023, September 29). *16 key LMS Requirements Your Checklist Must have*. Docebo. <https://www.docebo.com/learning-network/blog/lms-requirements/#:~:text=Functional%20LMS%20requirements%201%201.%20Social%20learning%202,xAPI%207%207.%20Authoring%20tools%208%208.%20Usability>

*Key LMS requirements you should be aware*. Inoxoft. (2024, January 15). https://inoxoft.com/blog/learning-management-system-requirements-checklist-for-your-business/#:~:text=Non-Functional%20Requirements%20for%20Learning%20Management%20System%201%20System,...%204%20Payment%20gateways%20...%205%20SCORM%2FGDPR%2FFERPA%20

Miller, B., Benjamin, K. A., Carsen, J., Matton, A., & Grensing-Pophal, L. (2019, November 4). *Pros and cons of utilizing an LMS*. HR Daily Advisor. https://hrdailyadvisor.blr.com/2019/09/16/pros-and-cons-of-utilizing-an-lms/