# CS 255 Module Two Assignment

Kennedy Uzoho

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Administration | This is where the management of access is maintained and supported. The system should be regularly scanned for functionalities. | Dubrova, D. (2019, August  06). Functional vs Nonfunctional  Requirements: List &  Examples. Retrieved  July 8, 2020, from https://theappsolutions.  com/blog/development/  functional-vs-nonfunctionalrequirements/ |
| Notifications/messaging | A way of communicating with administrators and other users for any required tasks. For example, send email reminders, class schedules, and things that may need to be done by participants. | Dubrova, D. (2019, August  06). Functional vs Nonfunctional  Requirements: List &  Examples. Retrieved  July 8, 2020, from https://theappsolutions.  com/blog/development/  functional-vs-nonfunctionalrequirements/ |
| Student Portal  management | The LMS will have a way to present classes enrolled by students, show students’ enrolled classes along with other necessary information. | Dubrova, D. (2019, August  06). Functional vs Nonfunctional  Requirements: List &  Examples. Retrieved  July 8, 2020, from https://theappsolutions.  com/blog/development/  functional-vs-nonfunctionalrequirements/ |
| Content Management module. | The system will have a way to download and upload content in and out of the website as well as across the website. Allow storing and sharing data electronically. | Ayesha Habeeb Omer, (Sept. 28,  2017) LMS Features: What To  Look For In A Learning  Management System.  https://elearningindustry.co  m/lms-features-what-looklearning-managent-system |
| User Registration | The system will offer self-registration/online registration. These tasks will also be achieved via the course catalog and any other link necessary. | Helen Colman, (Dec. 5, 2018)  Learning Management System  Requirements: an Ultimate Checklist.  https://www.ispringsolutions  .com/blog/lmsrequirements/ |
| Course calendar and delivery. | The system will associate classes with the instructor’s names and availability options. The system will display events as a custom calendar designed to shows  events related to the program  that the student is enrolled in. | Ayesha Habeeb Omer, (Sept. 28,  2017) LMS Features: What To  Look For In A Learning  Management System.  https://elearningindustry.co  m/lms-features-what-looklearning-managent-system |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Availability | System downtime should be planned and prepared for. The downtime events should occur at least 24 hours in advance. Updates, patches, and support should be done without service interruption. | Ayesha Habeeb Omer, (Sept. 28,  2017) LMS Features: What To  Look For In A Learning  Management System.  https://elearningindustry.co  m/lms-features-what-looklearning-managent-system |
| Usability and Learnability | The system will provide the users with a contextual and interactive learning environment. | Isha Sood (Oct. 2, 2018) An  Overview Of 4 popular Learning  Management Systems For  Higher Education  https://elearningindustry.co  m/learning-managementsystems-for-highereducation-overview-popular |
| Reliability | Established a security measure that works to make sure the software operates regardless of downtimes. The system will track and display student information including IDs. | Nick Santaniello, (Apr. 20, 2018)  The 10 Most Critical LMS  Requirements For Any Online  Training Program  https://elearningindustry.co  m/lms-requirements-onlinetraining-program-10-critical |
| Security | The system will integrate security features with 3rd authentications and like o- Auth direct usage with a Single Sign-On. | Isha Sood (Oct. 2, 2018) An  Overview Of 4 popular Learning  Management Systems For  Higher Education  https://elearningindustry.co  m/learning-managementsystems-for-highereducation-overview-popular |
| Manageability | There should be a way to run and maintain the audit log for all user’s transactions and the ability to report them via audits. | Epathlearning.com, (2019) LMS  101: What Are Learning  Management Systems?  https://www.epathlearning.c  om/solutions/learningmanagement-systemtechnology/lms-101/ |
| Capacity and Scalability | The system capacity needs to be able to store and expand based on performance rates.  Will have the ability to store and retrieve up to 10 years of participant’s profile, work history, and registration transactions. | Nick Santaniello, (Apr. 20, 2018)  The 10 Most Critical LMS  Requirements For Any Online  Training Program  https://elearningindustry.co  m/lms-requirements-onlinetraining-program-10-critical |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
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| Provides a dynamic online learning environment | Have the right mix of recorded and live lectures.  Generate valuable content. | Jason Cole, (Aug. 12, 2019)  What the state of learning  management systems can tell us  about digital innovation  https://medium.com/learnin  g-futures/what-the-state-of learning-managementsystems-can-tell-us-aboutdigital-innovationbddfb613332a |
| Decreased learning possibilities | Online classes could be difficult to adjust to, so some students might find it hard at first and then gradually adjust. So this is why the system needs to be as interactive as it can be. | Isha Sood (Oct. 2, 2018) An  Overview Of 4 popular Learning  Management Systems For  Higher Education  https://elearningindustry.co  m/learning-managementsystems-for-highereducation-overview-popular |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
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| Limited learning | Students are diverse, some  learn through different teaching  methods as opposed to  traditional teaching; Some  important materials and other  learning tools are not available  in the classroom, This hinders  some students’ ability to grasp  the content being taught. | Cenie M. Vilela-Malabanan,  Nancy Q. Echavez (Dec. 2018)  Constraints on the Use of a  Learning Management System  in a Blended Learning  Environment.  http://ijodel.com/wpcontent/uploads/2019/02/00  5\_VilelaMalabanan\_Echavez.pdf |
| Software and Hardware upgrade. | Upgrading hardware for  any system is often  expensive but necessary. software and hardware upgrades and updates will be handled by the system administrators. | Constraints on the Use of a  Learning Management System  in a Blended Learning  Environment.  http://ijodel.com/wpcontent/uploads/2019/02/00  5\_VilelaMalabanan\_Echavez.pdf |