# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| The system should show the classes for every student. | Students need to be able to see their classes in this LMS. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |
| The system should allow teachers to create assignments for students to submit to. | Teachers need to be able to create graded assignments so that students can show their understanding. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |
| The system should allow teachers to create quizzes for the students to take. | Teachers need a way to assess the students within the system. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |
| The system should allow teachers to create discussion boards for students within the class to post to and respond to other students. | Teachers can create discussion boards to accommodate online students within the class or to get a census on what students think about a subject. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |
| The system should allow students to see their grades and provide a link to the teacher’s email address next to the teacher’s name. | The students must be allowed to see their grades within the class on assignments, quizzes, discussion posts, and overall. Seeing this information will help them to fix mistakes or ask questions as needed. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |
| The system should allow teachers to create announcements to update their students on | Announcements serve as an important requirement to add as updating students on class topics such as if class is cancelled or if nobody did an assignment is almost necessary. | *Brightspace for students*. (n.d.). Suffolk County Community College. Retrieved September 17, 2023, from https://www.sunysuffolk.edu/explore-academics/online-education/brightspace-students/index.jsp#:~:text=Brightspace%20is%20an%20online%20software,Submit%20assignments |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Scalability; the system must be able to scale up or down and be adjustable if needed. | The system must grow along with the users. Implementation of new ideas/updates is a must after the initial release of a product, so the scalability of a product matters. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |
| Maintenance; the system must be able to be easily maintained, updated, and edited when needed | If there is need for a new feature, the system must be able to accommodate for that feature. Also, if bugs are found, which is more than likely, they need to be fixed as soon as possible. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |
| Compatibility; the system should be available to be accessed on a computer as well as a phone. | Multiple accessibility means convenience of the system increases. Since convenience is the way of life, this would be a major functionality to implement. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |
| Compliance; our LMS should not break or bend any rules, regulations, or laws. | Staying legal is of the upmost importance when creating something new. Also, our system should adhere to rules as to create a proficient and efficient system. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |
| Security; the system needs protection against hacking software, as well as usernames and passwords so that only those with permission can access certain data. | Security is a major problem with any online system. Usernames and passwords are needed to protect information. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |
| Performance; the system must be able to handle a college’s worth of students logged in at one time. | Since this is a system for a university, there is going to be a lot of traffic. The system needs to be able to handle that with ease. | Jain, A. (2022, December 15). *What is Requirements Management: Definition, Benefits, Best Tools*. Visure Solutions. Retrieved September 17, 2023, from https://visuresolutions.com/requirements-management-traceability-guide/non-functional-requirements/#:~:text=Examples%20of%20Non%2Dfunctional%20Requirements,-Here%20are%20some&text=Scalability%3A%20The%20system%20must%20be,different%20platforms%20with%20minimal%20changes. |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
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| Electricity and online services such as Wi-Fi are available to all students. | Most, if not all, students will have access to this, so making accommodation for those who don’t is a waste of time. | (I thought of it). |
| Each student and teacher have their own username and password, unique to them, to make the website secure and safe. | Having everyone with their own username and password makes it so that the site can be personalized with their information, and that information is secure and only for their vision. | (I thought of it). |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
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| Internet access is needed for this system. | Without internet access, it is impossible to get to this website to access the LMS. | (I thought of it). |
| The system is online only. | Teachers and students can only edit the site if they’re online. Offline accessibility is non-existent. This is different from internet access. Online only means that you have to be connected with a computer or phone to the website to access the content. | (I thought of it). |