# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Business Rules | Students need to be able to submit assignments and view course progress. Teachers need to be able to grade assignments. | Business Rules and Requirements Aren’t the Same. (2021, June 17). QRA Corp. <https://qracorp.com/business-rules-vs-requirements/> |
| Transaction corrections, Adjustments and Cancellations | Students need to be able to edit and remove submitted assignments/ discussion posts prior to due date. Teachers need to be able to adjust grades and edit/remove announcements. | Jafari, L. (2021, April 2). What Are Functional Requirements? Types and Examples. WINaTALENT | Blog. <https://winatalent.com/blog/2020/05/what-are-functional-requirements-types-and-examples/> |
| Administrative Functions | Admins need to be able to add/edit/remove course materials and adjust student access to components based on department requests and feedback. | Administrative Functions Definition. (n.d.). Law Insider. <https://www.lawinsider.com/dictionary/administrative-functions> |
| Authentication | Authentication is validated through school email address and password. | Functional vs Non-Functional Requirements - Understand the Difference. (2020, July 28). ReQtest. <https://reqtest.com/requirements-blog/functional-vs-non-functional-requirements/> |
| Authorization Levels | Roles need to be identified such as Admin, Teacher, and Student. These roles will determine the various system access levels. | Jafari, L. (2021, April 2). What Are Functional Requirements? Types and Examples. WINaTALENT | Blog. <https://winatalent.com/blog/2020/05/what-are-functional-requirements-types-and-examples/> |
| Reporting Requirements | Students need to be able to access graded assignments and class grade report. Average assignment grade, pass/fail percentage, and assignments completion percentage to be generated for teachers and departments. | Identify reporting requirements. (2018, August 29). BetterEvaluation. <https://www.betterevaluation.org/en/rainbow_framework/report_support_use/identify_reporting_requirements> |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
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| Performance | Pages should upload instantly. Submission should be restricted to a certain size, and they should upload within 2 minutes with an internet speed minimum of 6mbps. | Rome, P. (2020, August 11). What are Non Functional Requirements — With Examples. Perforce Software. <https://www.perforce.com/blog/alm/what-are-non-functional-requirements-examples> |
| Scalability | Project requires module design for additional feature to be added in future updates. Hardware requirement will need to be adjusted based on user population and new content requirements. | Alami, A. (2018). Non-Functional Requirements: Scalability. Modern Analyst. <https://www.modernanalyst.com/Resources/Articles/tabid/115/ID/4968/Non-Functional-Requirements-Scalability.aspx> |
| Availability | Application needs to be accessed on desktops and mobile devices. It also needs compatibility with all major operating systems and web browsers. | Requirements.com Staff. (2020, September 20). What are Availability Requirements? Requirements.Com. <https://requirements.com/Content/What-is/what-are-availability-requirements> |
| Maintainability | The system should be able support and indefinite lifespan and revisions should be able to be made as frequently as needed. | Alexandrian, R. (2019, September 6). Non Functional Requirements: Maintainability. Seilevel Blog - Software Requirements. <https://seilevel.com/requirements/non-functional-requirements-maintainability> |
| Serviceability | The application content will need to be changed and adjusted every term. The modular design is critical for serviceability. | Jafari, L. (2020, December 26). What Are Non-Functional Requirements? Types and Examples. WINaTALENT | Blog. <https://winatalent.com/blog/2020/05/what-are-non-functional-requirements-types-and-examples/> |
| Usability | The interface need to be intuitive to accommodate students and teachers with a variety of technical expertise. | Non-functional Requirements: Examples, Types, How to Approach. (2020, February 12). AltexSoft. <https://www.altexsoft.com/blog/non-functional-requirements/> |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Learning | Students should be able to learn nearly as well with a well-developed online platform as they can with in-person classes. | Carey, B. (2020, June 13). What We’re Learning About Online Learning. The New York Times. <https://www.nytimes.com/2020/06/13/health/school-learning-online-education.html> |
| Course Transition | It is expected that Teaching departments will be able to optimizes required courses for online learning. | Villasenor, J. (2020, June 4). Online college classes are here to stay. What does that mean for higher education? Brookings. <https://www.brookings.edu/blog/techtank/2020/06/01/online-college-classes-are-here-to-stay-what-does-that-mean-for-higher-education/> |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Self-Discipline | Online courses require a student to have more self-discipline in completing coursework. | Thompson, S. (2021, October 19). Top 5 Advantages & Disadvantages of Online Learning [2021]. Kaltura. <https://corp.kaltura.com/blog/advantages-disadvantages-online-classes/> |
| Educator Training | Educators will need to go through proper training to fully utilize the features of the application and provide the optimum learning experience for students. | Thompson, S. (2021, October 19). Top 5 Advantages & Disadvantages of Online Learning [2021]. Kaltura. <https://corp.kaltura.com/blog/advantages-disadvantages-online-classes/> |