

## Quality attributes:

ID	Quality attribute	Scenario	Associated Use Case
QA – 1	Security	A secure login environment for students prevents students from accessing each other's information	UC – 6 & UC – 8
QA – 2	Availability	The system downtime does not exceed 4 hours/month	UC – 9
QA – 3	Accessibility	A blind user is able to login and use the CMS through the use of screen readers and prompts	UC – 8
QA – 4	Interoperability	The system is synchronized with secondary university systems	UC – 11
QA – 5	Scalability	Additional courses, departments, lecturers and students are added according to capacity requirements	UC – 4, UC – 8 & UC – 10
QA – 6	Maintainability	The system is backed up routinely to ensure loss of data does not prevent proper functionality	UC – 9
QA – 7	Performance	The system is able to pull up course information in a few seconds after it is requested by a lecturer	UC -1 & UC – 2

## Constraints:

ID	Constraint
CON – 1	The system should not be down for more than 4 hours a month
CON – 2	The system must be able to be synchronized with a secondary university system
CON – 3	Students are not allowed to create passwords of length less than 10 characters
CON – 4	CMS must be accessible by a web browser such as Chrome, Edge, Firefox and mobile browsers
CON – 5	Daily incremental system backups are required
CON – 6	All course notifications during the length of semester must be stored and visible