



Use Case

Use Case	Description
UC-1: Monitor System Status	Monitor the status of the CMS.
UC-2: Static and Dynamic Course Info	The CMS needs to provide and store Static and Dynamic information.
UC-3: Detect Faults	Detect faults of CMS and be able to correct them.
UC-4: Student Grades Display	Display grades from previous courses that student has taken
UC-5: Course Portal Display	Display the CMS. Be able manage course contents, such as enrolling in courses, downloading files, viewing course history and much more.
UC-6: User Profile Utilities	Students should be able to reset passwords, modify notification, get contact information,

	and viewing student details, and edit their own personal information
UC-7: Manage Database	Store information on a DBMS to access at a later time, and have back-ups in case of emergency.
UC-8: Configure Users	Configure each individual users
UC-9: Performance Data Collection	Collect data about the performance on the CMS
UC-10: User Login	Each user has to login to access personalized private contents.
UC-11: User Management	User needs to be able to manage their own CMS.

Quality Attributes

ID	Quality Attribute	Scenario	Associated Use Case	Priority
QA-1	Performance	System constantly scans for possible errors in order to not cause a shutdown	Detect Fault	H,H
QA-2	Modifiability	A student grade update is done. This should be able to be added successfully without affecting the grades of the other students.	Student Grade Display	M,M
QA-3	Availability	If a failure occurs, the system shuts down and restarts instantly.	All	H,H
QA-4	Performance	The system	Collect	H,H

		when is under load from all the students and staff logged in, is able to make a performance data in case the systems fails, no data is lost.	Performance Data	
QA-5	Performance, Usability	User Information is displayed along with various self serve options. System should be fast and capable of making the change quick and effective immediately for other systems to use and see.	User Profile Utilities	H,M
QA-6	Security	If a change is made in the system, it is possible to know which user made the change	All	H,M

Constraints

ID	Constraints
CON-1	All users should be able to login and use the system at the same time without causing the system to crash due to overload.
CON-2	A relational database should be used so that it can be co-used with other major system in the campus or school.
CON-3	Changes made in the past 7 days must be

	stored for data recovery.
CON-4	Student / Lecturers must be able to see only their own grades or his or her class.
CON-5	Static and dynamic view of the course information only by the students and lecturers
CON-6	System shall not allow users to change information maintained by secondary systems.
CON-7	Student file upload should be limited to 10 MB per upload in order to not waste disk usage.
CON-8	Final grade calculation statistics should be done by the administrators.
CON-9	System shall allow only the administration to specify completed courses as prerequisites of a course.
CON-10	The system shall prevent students from subscribing to a course they don't qualify.