**Use Case Description**

|  |  |
| --- | --- |
| UC-1: Login | A User logs into the system after entering User ID/password.  Upon successful login, the user is given appropriate permissions |
| UC-2: Course Selection | Student Selects course and is able to subscribe/unsubscribe and view course information |
| UC-3: Manage Account | Users change/recover passwords associated with their account |
| UC-4: Search | Users enter course codes or name into the system, system replies with courses that match the input |
| UC-5: Course Creation | Lecturers create courses and sent to the administration for confirmation |
| UC-6: File management | Students and Lecturers are able to upload and download files to and from the system |
| UC-7: Messaging | Users send emails/messages to other users |
| UC-8: Manage Grades | Users with appropriate permissions are able to alter/add/remove grade sent to students |
| UC-9: Manage Users | The Administration adds or removes a user's permissions |
| UC-10: Manage Course | Administration updates/adds or removes content from courses |
| UC-11: Manage Departments | Administration manages prerequisite courses for each department and required courses for each department |

**Quality Associated**

**ID Attribute Scenario Use Case**

|  |  |  |  |
| --- | --- | --- | --- |
| QA-1 | Security | Users forget User ID and password. The system will prompt the user for additional recovery information obtained while registering before emailing user recovery steps | UC-1  UC- 3 |
| QA-2 | Maintainability | New courses and departments are added to the systems static database. The additions are added successfully with minimum 4 hours downtime of the server/month | UC-10  UC-11 |
| QA-3 | Availability  Performance | System crashes. The system creates back-ups of the entire system to restore partial and complete backups of a specific date | ALL |
| QA-4 | Security | Students viewing grades of other students. The system denies all access of other Users. | UC-8 |
| QA-5 | Performance  Interoperability | Users upload excess amount of files, and large files into the system slowing the performance. The system limits the size of files being uploaded by the lecturers an students, and limits total available space for courses. | UC-6 |
| QA-6 | Scalability | Sudden load increase threatening systems performance. The system will adjust and allocate more servers to handle the load. | All |

**ID Constraint**

|  |  |
| --- | --- |
| CON-1 | The system Must be easily testable, scalable and maintainable |
| CON-2 | The system must have bilingual support |
| CON-3 | The system must be accessed through modern web browsers on different operating systems |
| CON-4 | The system must have a mobile version available for Android and IOS |
| CON-5 | The system must prioritize to load schedules, due dates, and messaging to accommodate for slow network connections |