|  |  |
| --- | --- |
| Use Case | Description |
| UC-1: Login | There are 4 types of users in the system and each user has different privileges. With a login functionality we are differentiating different type of users and create privacy in the system. |
| UC-2: Create/remove content | Lecturers will upload course related material such as lecture notes/slides, lab manuals and practice quizzes for students. |
| UC-3: Manage grades | Student’s grades will be updated regularly depending on the course grade breakdown. This will be done by lecturers. |
| UC-4: View course information | Each course page should provide general information about the course. |
| UC-5: Submit content | Students need to submit their work (e.g. assignments, lab reports, final projects) for grading. |
| UC-6: Create/restore backup | It is really important to have a backup in case the system stops working due to some reason. This backup should be easily restored. |
| UC-7: Manage course offerings | Course offerings might change every year so the system should reflect these changes. |

Use Cases

Quality Attribute Scenarios

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Quality Attribute | Scenario | Associated Use Case |
| QA-1 | Security | The system contains sensitive data such as, first name and last name of a student that should not be seen by someone outside of the system. Also each users account needs to be private to make sure other users are not performing activities that they are not supposed to perform. | UC-1 |
| QA-2 | Availability | When the system needs to be maintained, it needs to be done during low-intensity hours. For instance, if a backup needs to be restored by maintainers it should not be done during school time where students and lecturers might need to access the system. | UC-6 |
| QA-3 | Interoperability | The system provides a convenient way for students to manage their calendar. They can add their scheduled lecture times to the calendar as well as events, deadlines and any other personal notes which makes it easy for them manage their time appropriately by keeping everything in one place. | UC-7 |
| QA-4 | User Friendliness | If the system’s user interface is complicated and not intuitive, it will be difficult for users such as students and lecturers to perform certain activities. For this reason the system needs to be user friendly. | All |
| QA-5 | Accessibility | The system provides support to its disabled users. It should be equally easy for blind students to navigate and perform the activities they are expected to perform. | All |

Constraints

|  |  |
| --- | --- |
| ID | Constraint |
| CON-1 | Must have 99.999% availability |
| CON-2 | Submission file size should be limited |
| CON-3 | Student/Lecturer must be able to view/make changes to his/her own class |
| CON-4 | Constrained to Java application compatibility |

Architectural Concern

|  |  |
| --- | --- |
| ID | Concern |
| CRN-1 | Establishing initial system structure |
| CRN-2 | Leverage team’s knowledge on Java and Swing |
| CRN-3 | Allocate work to member of the development team |