|  |  |  |
| --- | --- | --- |
| Use Case No: 1 | Use Case Name: Login Screen | Rating Must Have |
| Purpose: Allow the user to login in to their unique account and direct them to an appropriate screen. | | |
| Main Actor: All users will need to use this feature. | | |
| Description:  When the user opens the program, they should be taken to the login screen. The user will then be prompted to enter their username and their password. When this is entered the user will press an enter button and then the system will validate the username and password combination against one on a secure database. When validating if the information is correct then it will get the users level of access and then depending on if the user is a lecturer or a student then it will direct them to the correct screen.  Non-Functional Requirements:   * 1: Security, The users must all have unique Logins and a minimum complexity of password to login. * 2: Validation, All the storage of passwords for the users must be stored in an encrypted format * 3: Access, The level of access that the user should have will be stored in the same area as the password. * 4: Ease of Use, It must be clear to the user where the information should be input. * 5: Response, The time between the user pressing enter and the validation being complete must be les than 1 minute. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case No: 2 | Use Case Name: Create Test | | Rating: Must Have |
| Purpose: Customer should be able to create a specified type of test and add questions for the students to answer | | | |
| Main Actor: Lecturer | | Secondary Actors: | |
| Description: Upon choosing to start a new test, the teacher must be prompted to select a type of test from formative or summative. The teacher must then add a title to the test. The teacher must then be prompted to add at least 1 question to at most 10 questions. The accepted answers must also be added. The lecturer must then post the test. The system will then notify the students that they have a new test for completion and it will appear on their own screens  Non-functional requirements:  Ease of use: the lecturer should be able to select the type of test and add questions to create the test without challenges  Accuracy: Upon selecting the type of test, the features of formative/summative must apply 100% of the time. Each test must always only contain the questions added by the lecturer, and their corresponding answers. The system can be more flexible and accept answers with misprints  Security: only lecturers must be able to post tests  Response: the system should carry out all operations individually, within 30 seconds | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case No: 3 | Use Case Name: Completing a test | | Rating must have |
| Purpose: Customer should be able to answer the assigned questions on a test then submit the test. | | | |
| Main Actor: Customer | | Secondary Actors: | |
| Description:  The customer acting as a student must have the chosen quiz ready to fill out displayed to them. They will then proceed to answer the questions they wish. Once they have completed the questions to their satisfaction, they will choose to either submit the test, or save and quit (for formative assessments only).  Non-Functional Requirements:  Ease of use: The customer should be able to answer the test without instruction or training.  Consistency: The final answers submitted by the students should be the answers taken for the final mark and comparison against correct solutions 100% of the time.  Security: The customer should only be able to submit tests for their own account. Any errors regarding student scores being mixed should be avoided 100% of the time.  Response: The customer should be notified when they have either submitted or saved a test 10 seconds after completing the test. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case No:  4 | Use Case Name: View test statistics | | Rating: Must Have |
| Purpose:  Customer should be able to view the statistics and results of tests that have been completed. | | | |
| Main Actor: customer | | Secondary Actors: | |
| Description:  The customer should only be provided with the option of viewing summative tests results that have had their due date passed. Once the customer has clicked on one of the summative tests, they should have the option as to how they want to view the test’s results e.g. Chronological, Alphabetical. The customer should also be provided with an option to view the statistics in several different ways (average mark, the most common mark, the highest mark and the lowest mark.)  The customer shouldn’t be able to view the individual test results of formative tests (each individual students test results), they should only be able to view the test statics of formative tests.  Non-Functional requirements  Security: The customer must be logged into the system in order to view the results of tests  Response: The system should provide the correct statistics and results of the system within 1 minute of the statics/results being requested.  Accuracy: The system should provide the correct statistics to the customer.  Consistency: The system should work 100% of the time. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case No: 5 | Use Case Name: Giving feedback on tests | | Rating: should have |
| Purpose: after the student submit the test the system will generate a feedback for the student. | | | |
| Main Actor: Lecturer | | Secondary Actors: Student | |
| Description:  After finishing every attempt for the formative assessment students should be provided with a feedback on their performance (the answered that they got correctly or incorrectly). Also, they can be guided to a lecture to help them with the answer that they got wrong. However, in summative assessment the feedback will be available to student after the deadline.  Non-Functional requirements:  Security: student shouldn’t be able to modify anything from the feedback.  Ease of use: the user will be able to use the system without needing any training.  Response: the time between the user finishing the test and giving the feedback should be less than 30 second. | | | |