**Kindly sign up to test the system based on your coding/implementation assignment. System will be tested with respect to use case (functional) scenarios and the quality scenarios identified in our requirements analysis task.**

**Due to time constraint running all tests is not realistic. Therefore please kindly base your choice on the priority score besides your coding assignment.**

**Kindly modify or make changes as it is deemed necessary to the sign up sheet or sw testing document template that is made available on Slack.**

**Testing Sign Up Sheet**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **User role** | **Feature Name** | **Feature brief description** | **score** | **Testing/Tester** | **Test**  **data** | **Outcome** |
| Student | Sign in/ Sign up | Student can register for the first time and can sign in thereafter  which would let system to store data by having unique identity for each user | 3 |  |  | Success |
|  | Modify Profile | Student can update details such as phone,email when changed | 2 |  |  |  |
|  | Dashboard | Student can see courses | 6 |  |  | Success |
|  | Search for course | Student can search for a course | 6 |  |  | Success |
|  | Course Details | Student can find instructor name, syllabus, modules and quizzes on selecting of course | 9 |  |  | Success |
|  | Enroll for Course | Student is able to enroll in any course | 2 |  |  | Success |
|  | Dropping Course | Student can drop the course | 2 |  |  |  |
|  | Start Quiz | Student can find quiz under each course | 6 |  |  | Success |
|  | Submit Quiz | Student can submit quiz | 6 |  |  | Success |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Message | Student can message to instructor or post in the discussion forum | 6 |  |  |  |
|  | Help | Student can click on help if he/she faces any issues/need help with the system | 6 |  |  | Success |
|  |  |  |  |  |  |  |
| Instructor | Sign in/ Sign up | Instructor can register for the first time and can sign in thereafter | 3 |  |  | Success |
|  | Modify Profile | Can update details such as phone,email when changed | 2 |  |  | Success |
|  | Dashboard | Instructor can see all the courses they teach | 6 |  |  | Success |
|  | Search for course | Instructor can search for a course from a list of courses | 4 |  |  |  |
|  | Course Details | Instructor can see all students enrolled for the course | 6 |  |  | Success |
|  | Modify Course Content | Instructor can update the course syllabus and quizzes | 9 |  |  |  |
|  | Message | Instructor can message to Students or post in the discussion forum | 6 |  |  |  |
|  | Help | Instructor can raise an issue if he/she faces any issues/need help with the system | 6 |  |  | Success |
|  | Request Access | Instructor can request admin to grant Instructor access for a course | 3 |  |  |  |
|  |  |  |  |  |  |  |
| Admin | Add/Remove user | Admin can add/Remove student/Instructor from the course | 6 |  |  |  |
|  | Assist with issues | Admin can assist student/instructor with any of their issues such as login,  access to courses,updating content | 9 |  |  | Success |
|  | Add/Modify Courses | Admin can add new courses, update or delete courses or course content | 6 |  |  | Success |
|  | Grant Access | Admin can grant access to an instructor/student to a course | 3 |  |  | Success |
|  | Revoke Access | Admin can revoke access to an instructor/student to a course | 3 |  |  | Success |

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| --- | --- | --- | --- | --- | --- | --- |
| **Quality attribute** | **Quality Scenario name** | **Quality Scenario brief description** |  | Testing/Tester | Test Data | Outcome |
| Performance | Speed | Buffer time in loading questions of quizzes, documents, videos lectures, etc should be minimum. | 3 |  |  | Success |
| Performance | Accuracy | The learning platform must be able to accurately grade the quiz. | 3 |  |  | Success |
| Modifiability | Update | Instructor/Admin should be able to constantly update existing courses, study materials, quiz questions, etc | 6 |  |  |  |
| Modifiability | Edit | Admin should be able to add new course, instructors as well as remove the courses for outdated technologies. | 3 |  |  |  |
| Availability | Time Slots | Students and Instructors should be able to access the learning platform anytime they want. | 3 |  |  | Success |
| Availability | Network Congestion | The learning platform should be able to handle overload if more than required people use it at a particular time. | 2 |  |  | Success |
| Security | Data Confidentiality | The grades and progress of student, study materials of courses, etc should be secured from being accessed by other users. | 9 |  |  | Success |
| Security | Plagiarism | The learning platform should be able to identify if similar solutions are being uploaded by more than 1 student or not. | 3 |  |  |  |

### **2.1 Functional requirements**

**2.1.1 Student Functionality:**

1) The system should record the course(s) each student takes.

2) The system should record the progress of every course that student has enrolled in.

3) The student should be able to view course content of the course (s)he takes.

4) The student should be able to take an assignment of the course (s)he takes.

5) The student should be able to take a quiz in the course (s)he takes.

6) The student should be able to view the grades of taken quiz and assignment.

7) The student should be able to seek help from administrators to deal with system issues.

8) The student should be able to add/drop a course.

9) The student should be able to view the dashboard.

10) The student should be able to see profiles of other students and instructors.

**2.1.2 Instructor Functionality:**

1) The system should record the course each instructor tutors.

2) The system should enable each instructor to add/remove/modify the course content, quizzes and assignments for the courses s/he tutors.

3) The system should enable each instructor to modify the syllabus for the courses s/he tutors.

4) The system should enable each instructor to modify the course content shown to each student in the course s/he tutors.

5) The instructor should be able to seek help from administrators to deal with system issues.

6) The instructor should be able to apply to/cancel instruct a course.

### 7) The instructor should be able to seek permission from administrator to teach courses.

### 8) The instructor should be able to see all the students enrolled in the course.

### 9) The instructor should be able to send/receive messages to/from students.

### 2.1.3 Common User Requirements:

### 1) Each user should be able to sign up for the first time, and sign in after then.

### 2) The system should display up-coming event for each user.

### 3) Each user should be able to read the syllabus for each course.

### 4) Each user should be able to read the manual of the system.

### 5) Each user should be able to browse help for operations s/he is able to do in a system.

### 6) Each user should be able to communicate with other students or instructor registered in the same course.

### 7) Each user should be able to modify his/her profile.

### 8) Each user should be able to search for a course.

### 2.1.4 Administrator Functionality:

### 1) The administrator should be able to modify the syllabus for each course.

### 2) The administrator should be able to add/remove/modify course content, quiz and assignment for each course.

### 3) The administrator should be able to modify the course content shown to each student in the course s/he tutors.

### 4) The administrator should get notified when a user requests for help.

### 5) The administrator should be able to add/remove student(s) from a course.

### 6) The administrator should be able to approve/decline application of a user to be an instructor of a course.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Abuse Case name -->**  **Security scenario name |**  **v** | Encryption Key Access | Assignment Answers Known | Anonymous key Identification | Access to the course database | Admin access | Access to answers of quizzes | Knowingly tampering/crashing the system |
| Plagiarism |  | X |  | X | X | X | X |
| Data Tampering |  | X | X | X | X | X |  |
| Unauthorized Access | X | X | X | X | X | X |  |
| Hacking attack | X | X | X | X | X | X | X |
| Loss of anonymity | X |  | X | X |  |  |  |