**Test Cases and Results**

**for**

**Educonnect**

**Final Version**

**Prepared by   
<Ruman Malik(21L-5159), Abdul Rehman (21L-5276), Abdullah Ahmad (21L-** **5253), Abdul Rehman Anwar (21L-** **7732)>**

**Test Case 1: Teacher/Student Registration and Login**

|  |  |
| --- | --- |
| **Identifier** | TC-1 |
| **Related Requirements** | User Registration and Login |
| **Short Description** | Testing the registration and login functionality for teachers and students |
| **Pre-condition(s)** | The application is up and running |
| **Input Data** | Valid and invalid teacher/student registration and login data |
| **Detailed Steps** | 1. Navigate to the registration page  2. Enter valid registration data and submit  3. Verify successful registration  4. Navigate to the login page  5. Enter valid login data and submit  6. Verify successful login |
| **Expected Result(s)** | The user should be able to register and login successfully |
| **Post-condition(s)** | The user is logged in |
| **Actual Result(s)** | The user was able to register and login successfully. |
| **Test Case Result** | Passed |

**Test Case 2: Announcement**

|  |  |
| --- | --- |
| **Identifier** | TC-2 |
| **Related Requirements** | Announcement |
| **Short Description** | Testing the announcement functionality |
| **Pre-condition(s)** | The teacher/student is logged in |
| **Input Data** | Announcement text |
| **Detailed Steps** | 1. Navigate to the announcement page  2. Enter a valid announcement and submit  3. Verify successful announcement |
| **Expected Result(s)** | The announcement should be posted successfully |
| **Post-condition(s)** | The announcement is available for students/teachers |
| **Actual Result(s)** | The announcement was not posted. The system displayed an error message. Also, the announcement visibility setting was not being saved. |
| **Test Case Result** | Failed |
| **Defect(s)** | 1. Announcement functionality not working as expected.  2. Announcement visibility setting not being saved. |
| **Correction(s)** | 1. The announcement defect was identified to be a problem with the announcement posting process. The issue was fixed by correcting the announcement handling logic in the code.  2. The visibility setting defect was due to a missing database field. The issue was fixed by adding the necessary database field. |
| **Re-test Actual result** | The announcement was posted successfully with the correct visibility setting. The announcement appeared in the list of announcements. |
| **Re-test Test Case Result** | Passed |

**Test Case 3: View Students**

|  |  |
| --- | --- |
| **Identifier** | TC-3 |
| **Related Requirements** | View Students |
| **Short Description** | Testing the view student’s functionality |
| **Pre-condition(s)** | The teacher/student is logged in |
| **Input Data** | None |
| **Detailed Steps** | 1. Navigate to the view student’s page  2. Verify the list of students is displayed |
| **Expected Result(s)** | The list of students should be displayed successfully |
| **Post-condition(s)** | The teacher can view the list of students |
| **Actual Result(s)** | The list of students was displayed successfully. The system displayed the names and faces of all registered students. |
| **Test Case Result** | Passed |

**Test Case 4: Create Class**

|  |  |
| --- | --- |
| **Identifier** | TC-4 |
| **Related Requirements** | View Students |
| **Short Description** | Testing the create class functionality |
| **Pre-condition(s)** | The teacher is logged in |
| **Input Data** | Class details (name, description, etc.) |
| **Detailed Steps** | 1. Navigate to the create class page  2. Enter valid class details and submit  3. Verify successful class creation |
| **Expected Result(s)** | The class should be created successfully |
| **Post-condition(s)** | The class is available for students to join |
| **Actual Result(s)** | The class creation failed. The system displayed an error message. Also, the class code generation was not working. |
| **Test Case Result** | Failed |
| **Defect(s)** | Class code generation not working. |
| **Correction(s)** | The class code generation defect was due to a faulty algorithm. The issue was fixed by implementing a new class code generation algorithm. |
| **Re-test Actual result** | The class was created successfully with a valid class code and appeared in the list of classes. |
| **Re-test Test Case Result** | Passed |

**Test Case 5: Join Class**

|  |  |
| --- | --- |
| **Identifier** | TC-5 |
| **Related Requirements** | Join Class |
| **Short Description** | Testing the join class functionality |
| **Pre-condition(s)** | The student is logged in |
| **Input Data** | Class code |
| **Detailed Steps** | 1. Navigate to the join class page  2. Enter a valid class code and submit  3. Verify successful class joining |
| **Expected Result(s)** | The student should be able to join the class successfully |
| **Post-condition(s)** | The student is a member of the class |
| **Actual Result(s)** | The student was able to join the class successfully and the class appeared in the student's list of classes. |
| **Test Case Result** | Passed |
| **Defect(s)** | Class code validation not working. |
| **Correction(s)** | The class code validation defect was due to a missing validation check. The issue was fixed by adding a validation check for class code. |
| **Re-test Actual result** | The student was able to join the class successfully using a valid class code and the class appeared in the student's list of classes. |
| **Re-test Test Case Result** | Passed |

**Summary of Test Cases:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Cases** | **Test Cases Run** | **Number of Defects Found** | **Number of Defects Corrected So Far** | **Number of Defects Still Need to be Corrected** |
| User Registration and Login (TC-1) | TC-1 | 0 | 0 | 0 |
| Announcement (TC-2) | TC-2 | 2 | 2 | 0 |
| View Students (TC-3) | TC-3 | 0 | 0 | 0 |
| Create Class (TC-4) | TC-4 | 1 | 1 | 0 |
| Join Class (TC-5) | TC-5 | 1 | 1 | 0 |
| **Complete System** | 5 | 4 | 4 | 0 |