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| **Identifier** | **TC1** |
| Related requirements(s) | User Registration |
| Short description | Register the user into the system. |
| Pre-condition(s) | The system is online and running. |
| Input data | Valid Email: testuser@example.com, Username: testuser, Password: SecurePassword123! |
| Detailed steps | 1. Navigate to sign up page.  2. Enter username, email and password.  3. Select user type as Instructor, student or admin.  4. Click submit to register and navigate to home page. |
| Expected result(s) | Registers user and logs in the system. Navigates to home page. |
| Post-condition(s) | Account is created and stored in database. |
| Actual result(s) | Created account and logged in the system. |
| Test Case Result | Pass |

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| **Test Case** | **Email** | **Username** | **Password** | **Expected Outcome** | **Actual Outcome** | **Verdict** |
| 1 | Valid | Valid | Valid | Success | Success | Pass |
| 2 | Invalid | Valid | Valid | Failure | Failure | Pass |
| 3 | Valid | Invalid | Valid | Failure | Failure | Pass |
| 4 | Valid | Valid | Valid | Failure | Failure | Pass |
| 5 | Valid | Valid | Short | Failure | Failure | Pass |
| 6 | Valid | Valid | Long | Success | Success | Pass |
| 7 | Invalid | Invalid | Invalid | Failure | Failure | Pass |
| 8 | Null | Valid | Valid | Failure | Failure | Pass |
| 9 | Valid | Null | Valid | Failure | Failure | Pass |
| 10 | Valid | Valid | Null | Failure | Failure | Pass |

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| **Identifier** | **TC2** |
| Related requirements(s) | User Login |
| Short description | Login the user into the system. |
| Pre-condition(s) | The system is online and running. |
| Input data | Valid Email: testuser@example.com, Username: testuser, Password: SecurePassword123! |
| Detailed steps | 1. Navigate to log in page.  2. Enter username, email and password.  3. Select user type as Instructor, student or admin.  4. Click submit to log in and navigate to home page. |
| Expected result(s) | Logs in the system. Navigates to home page. |
| Post-condition(s) | Account is created and stored in database. |
| Actual result(s) | Successfully log in the system. |
| Test Case Result | Pass |

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| **Test Case** | **Email** | **Username** | **Password** | **Expected Outcome** | **Actual Outcome** | **Verdict** |
| 1 | Valid | Valid | Valid | Success | Success | Pass |
| 2 | Invalid | Valid | Valid | Failure | Failure | Pass |
| 3 | Valid | Invalid | Valid | Failure | Failure | Pass |
| 4 | Valid | Valid | Valid | Failure | Failure | Pass |
| 5 | Valid | Valid | Short | Failure | Failure | Pass |
| 6 | Valid | Valid | Long | Success | Success | Pass |
| 7 | Invalid | Invalid | Invalid | Failure | Failure | Pass |
| 8 | Null | Valid | Valid | Failure | Failure | Pass |
| 9 | Valid | Null | Valid | Failure | Failure | Pass |
| 10 | Valid | Valid | Null | Failure | Failure | Pass |

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| **Identifier** | **TC3** |
| Related requirements(s) | Create a course. |
| Short description | Instructor creates a new course. |
| Pre-condition(s) | The system is online and running. User type should be Instrcutor |
| Input data | Title: abc  Description: new course description.  Price: 33$  Image: example.com  Materials: libgdx.com |
| Detailed steps | 1. Log in the system.  2. Click on Add Course.  3. Fill the form by entering Title, description, price, image url and adding or removing materials.  4. Click Submit to finish creating course. |
| Expected result(s) | Creates a course corresponding to logged in user. |
| Post-condition(s) | Course details are stored in database. |
| Actual result(s) | Created course. |
| Test Case Result | Pass |

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| **Test Case** | **Title** | **Description** | **Price** | **Image URL** | **Materials** | **Expected** | **Actual** | **Verdict** |
| 1 | Valid | Valid | Valid | Valid | Valid | Success | Success | Pass |
| 2 | Invalid | Valid | Valid | Valid | Failure | Failure | Failure | Pass |
| 3 | Valid | Invalid | Valid | Invalid | Failure | Failure | Failure | Pass |
| 4 | Valid | Valid | Valid | Invalid | Failure | Failure | Failure | Pass |
| 5 | Valid | Valid | Short | Invalid | Failure | Failure | Failure | Pass |
| 6 | Valid | Valid | Long | Invalid | Success | Failure | Failure | Pass |
| 7 | Invalid | Invalid | Invalid | Valid | Failure | Failure | Failure | Pass |
| 8 | Null | Valid | Valid | Null | Failure | Failure | Failure | Pass |
| 9 | Valid | Null | Valid | Null | Failure | Failure | Failure | Pass |
| 10 | Valid | Valid | Null | Null | Failure | Failure | Failure | Pass |

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| **Identifier** | **TC4** |
| Related requirements(s) | Edit a course. |
| Short description | Instructor edits a course. |
| Pre-condition(s) | The system is online and running. User type should be Instrcutor |
| Input data | Title: abc  Description: new course description.  Price: 33$  Image: example.com  Materials: libgdx.com |
| Detailed steps | 1. Log in the system.  2. From the list of courses, click on Edit button to edit.  3. Edit the form by changing Title, description, price, image url and adding materials or removing materials.  4. Click Submit to finish editing course. |
| Expected result(s) | Edit a course corresponding to logged in user. |
| Post-condition(s) | Course details are stored in databsse. |
| Actual result(s) | Course is updated. |
| Test Case Result | Pass |

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| **Test Case** | **Title** | **Description** | **Price** | **Image URL** | **Materials** | **Expected** | **Actual** | **Verdict** |
| 1 | Valid | Valid | Valid | Valid | Valid | Success | Success | Pass |
| 2 | Invalid | Valid | Valid | Valid | Failure | Failure | Failure | Pass |
| 3 | Valid | Invalid | Valid | Invalid | Failure | Failure | Failure | Pass |
| 4 | Valid | Valid | Valid | Invalid | Failure | Failure | Failure | Pass |
| 5 | Valid | Valid | Short | Invalid | Failure | Failure | Failure | Pass |
| 6 | Valid | Valid | Long | Invalid | Success | Failure | Failure | Pass |
| 7 | Invalid | Invalid | Invalid | Valid | Failure | Failure | Failure | Pass |
| 8 | Null | Valid | Valid | Null | Failure | Failure | Failure | Pass |
| 9 | Valid | Null | Valid | Null | Failure | Failure | Failure | Pass |
| 10 | Valid | Valid | Null | Null | Failure | Failure | Failure | Pass |

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| **Identifier** | **TC5** |
| Related requirements(s) | Delete a course. |
| Short description | Instructor deletes a course. |
| Pre-condition(s) | The system is online and running. User type should be Instrcutor |
| Input data | Dialogue box to choose Yes or No. |
| Detailed steps | 1. Log in the system.  2. From the list of courses, click on Delete button to delete.  3. A dialogue box appears.  4. Select yes to delete. |
| Expected result(s) | Delete the course. |
| Post-condition(s) | Course is removed from database. |
| Actual result(s) | Course is deleted. |
| Test Case Result | Pass |

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| **Test Case** | **Option** | **Expected** | **Actual** | **Verdict** |
| 1 | Ves | Success | Success | Pass |
| 2 | No | Failure | Failure | Pass |