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| Project Name: Generative education with AR | | | Test Designed by: Rafin Abrar Rono | | |
| Test Case ID: FR\_6\_A | | | Test Designed date: 5 April 2024 | | |
| Test Priority (Low, Medium, High): High | | | Test Executed by: | | |
| Module Name: Learning Module | | | Test Execution date: | | |
| Test Title: Verifying the addition of learning modules | | | | | |
| Description: Test validates successful addition of learning modules for a specified semester | | | | | |
| Precondition (If any): N/A | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Log into the system as a teacher. 2. Click on “Learning Modules” tab from the dashboard. 3. Select a course from the drop-down menu. 4. Click on “Add new”. 5. Select the semester during which the module will remain available. 6. Click on “Add”. 7. Select media content to add to module. 8. Select lecture notes to add to module. 9. Click on “Done”. 10. Browse “Content List” to preview modules or add new ones. 11. Click “Confirm”. | Course: Electrical Circuit Design  Semester: Summer 2023-24  Media:  ECD\_Basics.mp4  Notes: Intro\_ECD.pptx Instructions.pdf | Teachers should be able to add new modules for a specified course. | |  |  |
| Post Condition: The created module will be available to each student assigned for the course. The module will only remain active for the designated semester. | | | | | |

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| Project Name: Generative education with AR | | | Test Designed by: Rafin Abrar Rono | | |
| Test Case ID: FR\_6\_B | | | Test Designed date: 5 April 2024 | | |
| Test Priority (Low, Medium, High): High | | | Test Executed by: | | |
| Module Name: Learning Module | | | Test Execution date: | | |
| Test Title: Verifying the management of existing modules | | | | | |
| Description: Test validates the successful revocation of an existing module | | | | | |
| Precondition (If any): There must be existing modules for the specified course | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Log into the system as a teacher. 2. Click on “Learning Modules” tab from the dashboard. 3. Select a course from the drop-down menu. 4. Click on “Manage Existing”. 5. Select a module from the menu. 6. Select the semester during which the module will remain available. 7. Click on “Module Status”. 8. Select “Disabled” 9. Select lecture notes to add to module. 10. Click “Confirm”. | Course: Electrical Circuit Design  Semester: Summer 2023-24  Status: Disabled | The system disables the access to the selected module for that course. | |  |  |
| Post Condition: The disabled module will not be available to any student enrolled for the course the module belonged to. | | | | | |

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| Project Name: Generative education with AR | | | Test Designed by: Rafin Abrar Rono | | |
| Test Case ID: FR\_10 | | | Test Designed date: 5 April 2024 | | |
| Test Priority (Low, Medium, High): High | | | Test Executed by: | | |
| Module Name: Detect visualizable equations | | | Test Execution date: | | |
| Test Title: Verify the detection of equations and visualizing them | | | | | |
| Description: Test validated the successful detection and visualization of equations from the environment | | | | | |
| Precondition (If any): The hardware of the system should be able to detect mathematical equations | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Log into the system as a student or a teacher. 2. Observe the surroundings for mathematical equations. 3. Once detected, click on “Confirm”. 4. Choose to “Expand” plot summary for the detected equation. |  | The system should provide the visual representation and a plot summary for the detected equation. | |  |  |
| Post Condition: The equation details will be stored for future reviewing. | | | | | |