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| **Action** | **Inputs** | **Expected Output** | **Actual Output** | **Test Result** | **Test Comments** |
| Start application | http://localhost:5000/login | Sign In page | Sign In page | Pass | Launched successfully |
| Enter invalid credentials and attempt login | Email: test@email.com  Password: test123 | Incorrect Username and/or password! | Incorrect Username and/or password! | Pass | Login blocked as account invalid. |
| Enter valid email with invalid password and attempt login | Email: admin  Password: test123 | Incorrect Username and/or password! | Incorrect Username and/or password! | Pass | Login blocked as password invalid. |
| Enter invalid email with valid password and attempt login | Email: test@email.com  Password: admin | Incorrect Username and/or password! | Incorrect Username and/or password! | Pass | Login blocked as email invalid. |
| Enter valid credentials and attempt login as admin | Email: admin  Password: admin | Admin Page | Admin Page | Pass | Admin successfully logged in and respective page is correctly shown. |
| Query database for a list of pupils | Click on ‘Retrieve Pupils’ respective button | List of pupils displayed | List of pupils displayed | Pass | All pupils stored in the database are displayed. |
| Create a pupil and store them in appropriate database table | Under ‘Create Pupil’-  First name: Test  Last name: Pupil  Email: test@example.com  Course code: G400  Password: TestTest1234 | Pupil with aforementioned details stored in database | Pupil with aforementioned details stored in database | Pass | Pupil with correct details and pupilID ‘273’ added to ‘Pupils’ table in database. |
| Delete a pupil from database | Under ‘Delete Pupil’-  ID: 273 | Pupil with corresponding ID deleted from database | Pupil with corresponding ID deleted from database | Pass | Pupil with pupilID ‘273’ has been removed from ‘Pupils’ table. |
| Query database for a list of staff | Click on ‘Retrieve Staff’ respective button | List of staff and their respective roles displayed | List of staff and their respective roles displayed | Pass | All staff, including admins, stored in database are displayed alongside correct roles. |
| Create a staff member and store them in appropriate database table | Under ‘Create Staff’-  First name: Test  Last name: Staff  Email: test@example.com  Role: Module Leader  Password: TestTest1234 | Staff with aforementioned details stored in database | Staff with aforementioned details stored in database | Pass | Staff with correct details and staffID ‘105’ added to ‘Staff’ table in database. |
| Delete a staff member from database | Under ‘Delete Staff’-  ID: 105 | Staff with corresponding ID deleted from database | Staff with corresponding ID deleted from database | Pass | Staff with StaffID ‘105’ has been removed from ‘Staff’ table. |
| Sign out of admin account | Open side navigation bar and click on ‘Sign Out’ | Sign In page | Sign In page | Pass | Account Is logged out and user returns to login screen. |
| Enter valid credentials and attempt login as staff | Email: neil.thorpe@newcastle.ac.uk  Password: TestTest1234 | Neil Thorpe’s Staff Page | Neil Thorpe’s Staff Page | Pass | Staff successfully logged in and respective page is correctly shown. |
| Access module(s) accessible to staff member | Click on ‘Access this Module’ button for ‘Design of Sustainable Engineering Systems 2’ | ‘Design of Sustainable Engineering Systems 2’ module options | ‘Design of Sustainable Engineering Systems 2’ module options | Pass | Staff options regarding respective module are shown. |
| Add Assessment to appropriate database table | Click on ‘Add Assessment’-  Assessment Name: Documentation Test  Due Date: 2021/05/09  Assessment Description: Test for Documentation | Assessment with aforementioned details stored in database | Assessment with aforementioned details stored in database | Pass | Assessment with correct details and AssesmentsID ‘21’ added to ‘Assessments’ table in database. |
| Add Assessment Marks to appropriate database table | Click on ‘Add Assessment Marks’-  PupilID: 197  AssessmentID: 21  Percentage Score: 74 | Corresponding pupil receives correct mark for assessment. | Corresponding pupil receives correct mark for assessment. | Pass | PupilID, AssessmentID and Percentage added to ‘AssessmentMarks’ table in database with ID ‘27’. |
| Check Full Class Marks for Neil | Click on ‘Check Full Class’ Marks’ | Correct columns which are unpopulated (as PupilID 197 has incorrect Course Code for module) | Correct columns which are unpopulated (as PupilID 197 has incorrect Course Code for module) | Pass | As H290 is the course which includes the module, the pupil with G400 does not show in table successfully shown table. |
| Check Full Class Marks for Neil after a correct pupil has had marks added | Click on ‘Check Full Class’ Marks’ | Correct columns populated with pupil’s name, email and Module Average | Correct columns populated with pupil’s name, email and Module Average | Pass | Correct data displayed neatly in table. |
| Sign out of staff account | Open side navigation bar and click on ‘Sign Out’ | Sign In page | Sign In page | Pass | Account Is logged out and user returns to login screen. |
| Enter valid credentials and attempt login as student | Email: H.Wright6@newcastle.ac.uk  Password: TestTest1234 | Harry Wright’s Student Page | Harry Wright’s Student Page | Pass | Student successfully logged in and respective page is correctly shown. |
| Check for lessons in a module | Click on ‘Software Engineering Team Project’ respective button | List of lessons for module | List of lessons for module | Pass | Lessons shown in clean list. |
| Check lesson in module | Click on ‘Lesson 1’ | Lesson regarding Software Engineering to display | Lesson regarding Software engineering is displayed | Pass | Short, few educational pages displayed. |
| Check for assessments | Open side navigation bar and click ‘Assessments’ | Grid of student’s assessments | Grid of student’s assessments | Pass | Grid of boxes displayed with assessment name, due date, description and button. |
| Access assessment submission | Click ‘Module Coursework’s respective button | Submission box | Submission box | Pass | Submission page is displayed correctly. |
| Submit answer to assessment and store into correct database table. | Type ‘This is a test 5’ in submission box and hit ‘Submit’ button | Submission ‘This is a test 5’ is stored in ‘AssessmentSubmissions’ table | Submission ‘This is a test 5’ is stored in ‘AssessmentSubmissions’ table | Pass | Submission is correctly stored in database after button query. |
| Check if modules show | Open side navigation bar and click ‘Modules’ | Grid of student’s modules | Grid of student’s modules | Pass | Grid of boxes displayed with module image, name, description and button. |
| Check if reports show | Open side navigation bar and click ‘Reports’ | List including module information and grade | List including module information and grade | Pass | List is neatly displayed with all correct information. |
| Sign out of student account | Open side navigation bar and click on ‘Sign Out’ | Sign In page | Sign In page | Pass | Account Is logged out and user returns to login screen. |