**Test Case: Login Functionality**

Test ID: TC001

**Test Steps**:

**Test the User Interface:**

* Check if the login page is displayed correctly.
* Verify that all the necessary fields are present (e.g., username/email and password).
* Ensure that error messages are displayed appropriately for invalid inputs.

**Test Valid Login:**

* Enter valid login credentials (email and password).
* Verify that the user is successfully logged in.
* Ensure that the user is redirected to the correct page or dashboard.

**Test Invalid Login:**

* Enter invalid login credentials (e.g., incorrect username/email or password).
* Verify that the appropriate error message is displayed.
* Ensure that the user is not logged in and remains on the login page.

**Test Password Reset:**

* Click on the "Forgot Password" link (if available).
* Enter a valid email address or username associated with the account.
* Verify that a password reset email is sent to the user.
* Follow the instructions in the email to reset the password.
* Ensure that the password is successfully reset and the user can log in with the new password.

**Test Account Lockout:**

* Attempt to log in with incorrect credentials multiple times.
* Verify that the account is locked after a specified number of failed login attempts.
* Try logging in with valid credentials after the account is locked.
* Ensure that the user receives appropriate error messages and cannot log in until the lockout period is over or the account is unlocked by an administrator.

**Test Compatibility and Responsiveness:**

* Test the login functionality on different browsers (e.g., Chrome, Firefox, Safari, etc.).
* Test on different devices (desktop, mobile, tablet) to ensure responsiveness and compatibility.

**Test Case: Create Staff Account**

Test ID: TC002

Test Account Creation:

* Click on the "Create Account" or "Sign Up" link/button.
* Verify that the account creation page/form is displayed correctly.
* Enter valid and required information (e.g., email, password, etc.).
* Ensure that the account is successfully created and the user is redirected to the appropriate page.

Test Account Creation Validation:

* Enter invalid or incomplete information in the account creation form.
* Verify that appropriate error messages are displayed for each invalid field.
* Ensure that the account is not created if the required fields are not filled correctly.

Test Account Activation:

* After creating the account, check if an activation email is sent to the user.
* Follow the instructions in the email to activate the account.
* Verify that the account is activated successfully and the user can log in.

Test Account Deactivation:

If account deactivation is supported, log in as an administrator.

Find the staff account to be deactivated and navigate to the account settings.

Deactivate the account and save the changes.

Ensure that the staff account is deactivated and the user cannot log in with the deactivated account.

Test Account Reactivation:

If account deactivation is supported, log in as an administrator.

Find the deactivated staff account and navigate to the account settings.

Reactivate the account and save the changes.

Ensure that the staff account is reactivated and the user can log in with the reactivated account.

Test Account Permissions:

Log in with different staff accounts having different permission levels.

Verify that staff accounts can only access the features and functionality based on their assigned permissions.

Ensure that unauthorized staff accounts cannot access restricted areas or perform restricted actions.

Test Account Update:

Log in with a staff account and navigate to the account settings.

Update the account information (e.g., username, email, password, etc.).

Ensure that the changes are saved successfully and the updated information is reflected in the account.

Test Account Deletion:

Log in as an administrator.

Find the staff account to be deleted and navigate to the account settings.

Delete the account.

Ensure that the staff account is permanently deleted and cannot be accessed or recovered.

Test Security Measures:

Test the security measures in place, such as secure password storage, encryption, and protection against common vulnerabilities (e.g., SQL injection, cross-site scripting).

Verify that sensitive information is handled securely and not exposed to unauthorized users.

Test Error Handling:

Test different error scenarios, such as network errors, server errors, or database errors.

Ensure that appropriate error messages are displayed to the user.

Verify that the system handles errors gracefully without crashing or exposing sensitive information.

Test Performance:

Test the performance of the staff account creation process under normal and high load conditions.

Ensure that the account creation process is fast and responsive.

Verify that the system can handle multiple concurrent account creation requests without significant delays or failures.

Test Logging and Auditing:

Check if appropriate logs are generated for account creation, updates, deletions, and other relevant actions.

Verify that the logs contain necessary information for auditing purposes.

Ensure that the logs are stored securely and can be accessed by authorized personnel when needed.

Test Localization:

If the application supports multiple languages, test the staff account creation process in different language settings.

Verify that all text, labels, and error messages are translated correctly and displayed in the selected language.

Test Integration with Other Systems:

If the staff account is integrated with other systems or modules (e.g., HR system, payroll system), test the integration.

Verify that the necessary data is synchronized correctly between the systems.

Ensure that the staff account creation process does not cause any issues or inconsistencies in the integrated systems.

Test Boundary Cases:

Test the staff account creation process with boundary values for different fields (e.g., minimum and maximum length for username, password complexity requirements).

Verify that the system handles these cases correctly without crashing or allowing invalid data.

Test Accessibility:

Test the staff account creation process

**Test Case Title: View Staff Account**

Test Case ID:TC003

Test Session Timeout:

Login to the staff account and wait for the session timeout period.

Verify that the user is automatically logged out after the session expires.

Attempt to perform actions on the website after the session timeout.

Ensure that the user is redirected to the login page and prompted to log in again.

Test Account Access Control:

Ensure that only staff accounts have access to the staff account view.

Attempt to access the staff account view using a non-staff account.

Verify that a permission denied or access restricted message is displayed.

Ensure that the user is redirected to an appropriate page or denied access.

Test Account Information Display:

Verify that the staff account information is displayed correctly.

Check if the username, email address, and other relevant details are shown accurately.

Ensure that any sensitive information is masked or hidden for security purposes.

Test Account Editing:

Attempt to edit the staff account details (e.g., username, email address, password).

Verify that the changes are saved correctly.

Ensure that any validation rules or restrictions are enforced.

Check if appropriate error messages are displayed for invalid inputs.

Test Account Deactivation:

Deactivate the staff account.

Verify that the account is disabled and cannot be logged into.

Attempt to log in using the deactivated staff account credentials.

Ensure that a message is displayed indicating the account is deactivated.

Test Account Reactivation:

Reactivate the previously deactivated staff account.

Verify that the account is successfully reactivated.

Attempt to log in using the reactivated staff account credentials.

Ensure that the user can log in and access the staff account view again.

Test Account Deletion:

Delete the staff account.

Verify that the account is permanently removed from the system.

Attempt to log in using the deleted staff account credentials.

Ensure that the user receives an appropriate error message indicating the account no longer exists.

Test Security Measures:

Verify that the staff account view is protected against common security vulnerabilities (e.g., cross-site scripting, SQL injection).

Attempt to exploit known vulnerabilities and verify that they are properly mitigated.

Ensure that any security-related notifications or alerts are displayed when necessary.

Test Logging and Audit Trails:

Verify that relevant actions and events related to the staff account view are logged.

Check if a log of successful logins, failed login attempts, and account modifications is maintained.

Ensure that the log entries are accurate, complete, and stored securely.

Test Performance and Scalability:

Simulate a high number of concurrent users accessing the staff account view.

Verify that the system can handle the load without significant performance degradation.

Ensure that response times are within acceptable limits.

Test scalability by gradually increasing the number of users and monitoring system behavior.

**Test Case: Create Instructor Account**

Test ID: TC004

Test Account Registration:

Navigate to the registration page.

Enter valid information in all required fields (e.g., username, email, password, etc.).

Verify that the user account is successfully created.

Ensure that the user is redirected to the appropriate page or dashboard after registration.

Test Account Activation:

Check if the system sends an activation email to the user after registration.

Click on the activation link provided in the email.

Verify that the user account is activated and the user can log in.

Test Account Deactivation:

Log in to the instructor account.

Navigate to the account settings or profile page.

Locate the option to deactivate the account.

Click on the deactivate account button and follow any necessary confirmation steps.

Ensure that the account is successfully deactivated and the user is logged out.

Verify that the user can no longer log in with the deactivated account.

Test Profile Editing:

Log in to the instructor account.

Navigate to the account settings or profile page.

Edit the profile information (e.g., update name, contact information, bio, profile picture, etc.).

Verify that the changes are saved successfully.

Check that the updated profile information is displayed correctly on the user's public profile page.

Test Course Creation:

Log in to the instructor account.

Navigate to the course creation page.

Enter all the necessary details for creating a new course (e.g., course title, description, objectives, materials, etc.).

Verify that the course is successfully created and saved.

Ensure that the newly created course is visible and accessible to the instructor on their dashboard.

Test Course Management:

Log in to the instructor account.

Access the instructor dashboard or course management section.

Perform various actions, such as editing course details, adding/removing course materials, enrolling students, etc.

Verify that all the course management functionalities are working correctly.

Ensure that the changes made to the course are saved and reflected on the course page.

Test Course Enrollment:

Log out of the instructor account or use a different browser/incognito mode.

Navigate to the course catalog or search for the specific course.

Click on the course and attempt to enroll as a student using valid credentials.

Verify that the enrollment process is successful and the user is added as a student to the course.

Ensure that the enrolled course is visible on the student's dashboard.

These are some common test steps you can perform while creating an instructor account. The specific steps may vary depending on the system or application you are testing.

**Test Case Title: View Instructor Account**

Test Case ID: TC005

Test Account Creation:

Click on the "Create Account" or "Sign Up" link.

Fill in all the required fields for creating a new instructor account (e.g., name, email, password, etc.).

Verify that the account is successfully created and the user is redirected to the appropriate page or dashboard for instructors.

Test Profile Editing:

Navigate to the profile or account settings page.

Edit various fields such as name, email, contact information, etc.

Verify that the changes are successfully saved and reflected in the instructor's profile.

Test Course Creation:

Navigate to the course creation page or dashboard.

Fill in all the required information for creating a new course (e.g., title, description, course materials, etc.).

Verify that the course is successfully created and appears in the instructor's list of courses.

Test Course Management:

Access the instructor's list of courses.

Edit existing courses by modifying the title, description, or other details.

Verify that the changes are successfully saved and reflected in the course details.

Delete a course and ensure that it is permanently removed from the instructor's account.

Test Student Enrollment:

Invite students to join a course by sending them an enrollment link or code.

Verify that students can successfully enroll in the course using the provided method.

Check that the enrolled students are listed correctly in the instructor's course roster.

Test Course Grading:

Access the grading section for a specific course.

Assign grades to students for various assignments or assessments.

Verify that the grades are saved accurately and displayed correctly to both the instructor and the respective students.

Test Communication Features:

Test the messaging or communication functionality between instructors and students.

Send messages to students or receive messages from them.

Verify that messages are delivered accurately and the conversation history is maintained.

Test Analytics and Reporting:

Access the analytics or reporting section for a specific course or overall instructor account.

Generate reports on student performance, course progress, or any other relevant metrics.

Verify that the reports are accurate and provide the desired insights for instructors.

Test Account Security:

Verify that the instructor account is protected by appropriate security measures (e.g., secure password storage, encryption, etc.).

Test the account's password change functionality to ensure that it works as expected.

Check for any vulnerabilities or security risks and report them for further investigation.

Test Account Deactivation:

Simulate the deactivation or suspension of an instructor account.

Verify that the instructor can no longer log in or access any account-related features.

Ensure that any associated courses or data are appropriately handled, such as transferring ownership or archiving.

Test Integration with External Systems:

If the instructor account interacts with external systems or APIs (e.g., learning management systems, payment gateways, etc.), test the integration to ensure proper functionality and data exchange.

Test Accessibility:

Verify that the instructor account and associated features are accessible to users with disabilities.

Test with assistive technologies such as screen readers or keyboard-only navigation.

Ensure compliance with accessibility standards, such as WCAG 2.1.

These are some of the test steps that can be performed to evaluate the functionality and usability of an instructor account in an educational platform or system. Adjust them based on the specific requirements and features of the system you are testing.

**Test Case: Upload Document**

Test ID: TC006

**Test Steps**:

**Valid document upload:**

Test case: Upload a document with all required fields filled correctly.

Expected result: Document is successfully uploaded, and all fields are displayed correctly, including the retention period, date uploaded, and document title.

**Missing document title:**

Test case: Attempt to upload a document without providing a document title.

Expected result: An error message is displayed, indicating that the document title is required and prompting the user to provide it.

**Invalid retention period:**

Test case: Upload a document with an invalid retention period (e.g., negative value or non-numeric characters).

Expected result: An error message is displayed, indicating that the retention period is invalid and prompting the user to provide a valid value.

**Future date uploaded:**

Test case: Upload a document with a date uploaded set to a future date.

Expected result: The system should not allow the document to be uploaded with a future date. An error message is displayed, indicating that the date uploaded cannot be in the future.

**Date issue with retention period**:

Test case: Upload a document with a retention period that exceeds the current date or the date uploaded.

Expected result: The system should not allow the document to be uploaded with a retention period that extends beyond the current date or the date uploaded. An error message is displayed, indicating that the retention period is invalid.

**Maximum length document title:**

Test case: Upload a document with the maximum allowed length for the document title.

Expected result: The document is successfully uploaded, and the full document title is displayed correctly.

**Document title with special characters:**

Test case: Upload a document with a document title containing special characters, such as symbols or emojis.

Expected result: The document is successfully uploaded, and the document title with special characters is displayed correctly.

Uploading duplicate document titles:

Test case: Upload two documents with the same document title.

Expected result: The system should allow uploading documents with the same title. The documents are uploaded successfully, and the document titles are displayed correctly.

**⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫⚫**

**Test Case: Login**

Test Case ID: TC001

Test Case Description: Verify the login functionality of the application.

Precondition: The application is installed and the user has a valid account.

Test Steps:

Launch the application.

Enter valid credentials (username and password) in the login form.

Click on the "Login" button.

Expected Result:

The user should be successfully logged in and directed to the home page/dashboard.

The appropriate user-specific information and options should be displayed.

**Test Case: Create Instructor Account**

Test Case ID: TC002

Test Case Description: Verify the creation of a new instructor account.

Preconditio