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| **Testcase ID** | **Functionality** | **Input** | **Expected results** | **output** | **Pass/fail** |
| **TC001** | Login | Enter valid username and password; click **Login** | User is redirected to the dashboard. | User is redirected to the dashboard. | pass |
| **TC002** | login | Enter invalid username and password; click **Login** | Error message "Invalid credentials" is displayed. | Error message "Invalid credentials" is displayed. | pass |
| **TC003** | login | Attempt to log in with empty username and password fields | Error message "Username and password required" is displayed. | Login succeeds unexpectedly. | fail |
| **TC004** | Signup | Fill in all mandatory fields with valid data | "Signup successful" message is displayed. | "Signup successful" message is displayed. | pass |
| **TC005** | Signup | Enter an already registered email in the signup form | Error message "Email already in use" is displayed. | Error message "Email already in use" is displayed. | pass |
| **TC006** | Signup | Submit the signup form without solving CAPTCHA | Error message "Please complete the CAPTCHA" is displayed. | Form is submitted without CAPTCHA validation. | fail |
| **TC007** | Leave Management | Submit a leave request with valid dates | Leave request is submitted successfully and visible in leave history. | Leave request is submitted successfully. | pass |
| **TC008** | Leave Management | Submit a leave request without specifying dates | Error message "Please select leave dates" is displayed. | Leave request is submitted without validation. | fail |
| **TC009** | Leave Management | Approve leave request as an admin; verify leave status | Leave status changes to "Approved." | Leave status changes to "Approved." | pass |
| **TC010** | Leave Management | Attempt to approve a leave request without admin rights | Error message "Access denied" is displayed. | Leave request is approved unexpectedly | fail |
| **TC011** | Employee Management | Add a new employee with valid details | New employee appears in the Employee List. | New employee appears in the Employee List. | pass |
| **TC012** | Employee Management | Edit an existing employee’s details with valid input | Changes are saved successfully. | Changes fail to save with a "Database Error." | fail |
| **TC013** | Employee Management | Attempt to delete an employee record without proper permissions | Error message "Access denied" is displayed. | Record is deleted despite lack of permissions | fail |
| **TC014** | Recruitment | Post a job opening with all required fields completed | Job opening is successfully posted and visible on the recruitment page. | Job opening fails to appear on the recruitment page. | fail |
| **TC015** | Recruitment | View the list of applicants in the Recruitment module | Applicant details are displayed correctly. | Applicant details are displayed correctly. | pass |
| **TC016** | Recruitment | Attempt to post a job without filling mandatory fields | Error message "Please complete all required fields" is displayed | Error message "Please complete all required fields" is displayed. | pass |
| **TC017** | Performance view | Add a performance review for an employee | Review is saved and linked to the respective employee. | Review is saved and linked to the respective employee. | pass |
| **TC018** | Performance view | Submit performance review feedback as an employee | Feedback is submitted successfully and visible under the review history. | Feedback submission fails with a "Validation Error'' | fail |
| **TC019** | Dashboard | Verify the display of user-specific data after logging in | Dashboard displays user-specific information like leave status and tasks. | Dashboard displays user-specific information. | pass |
| **TC020** | Navigation | Check navigation between pages using the browser back and forward buttons | Navigation works as expected without errors. | Navigation works as expected without errors | pass |
| **TC021** | Security | Attempt to log in with expired credentials | Error message "Password expired. Please reset your password" is displayed. | Error message “Password expires” is displayed. | pass |
| **TC022** | security | Attempt to access restricted Admin module without logging in | User is redirected to the login page. | User remains on the restricted page. | fail |
| **TC023** | File upload | Upload a profile picture in supported file format (.jpg, .png) | Picture is uploaded and displayed successfully | Picture is uploaded and displayed successfully. | pass |
| **TC024** | File upload | Upload an unsupported file format (.exe) as a profile picture | Error message "Unsupported file format" is displayed. | File is uploaded and displayed incorrectly. | fail |
| **TC025** | Export functionality | Export Employee List as an admin | Employee List is exported successfully in the selected format (e.g., CSV). | Export fails with a "File Not Found" error. | Fail |
| **TC026** | Password reset | Request a password reset for a registered email | Password reset link is sent to email. | Password reset link is sent to email. | pass |
| **TC027** | Password reset | Request a password reset for an unregistered email | Error message "Email not registered" is displayed. | Error message "Email not registered" is displayed. | pass |
| **TC028** | Search functionality | Search for an employee by name | Employee is displayed in the search results. | Employee is displayed in the search results. | pass |
| **TC029** | Mobile responsiveness | Check the responsiveness of the login page on a mobile device | Login page adjusts layout and functionality for mobile screen size | Login page layout breaks on a mobile device. | fail |
| **TC030** | Session timeout | Log in and stay idle for session timeout duration | User is automatically logged out. | User remains logged in even after session timeout duration. | fail |