**1. Introduction**

This test plan focuses on testing the **Sign-out button** functionality on the **XaltS Portal**. The Sign-out button allows users to log out from their account, ensuring they are redirected appropriately, and their session is ended securely. The plan includes testing the functionality, user experience, and security aspects of the Sign-out feature.

**2. Test Objectives**

* Verify that the Sign-out button is present and functional.
* Ensure users can successfully log out when clicking the Sign-out button.
* Ensure that the user is redirected to the correct page after signing out i.e. Sign-in page.
* Test that the user session is properly ended and no user data remains accessible after logging out.
* Verify the behaviour of the Sign-out button in different states (e.g., logged in and not logged in).
* Verify the Sign-out button's appearance and usability across different devices and browsers.

**3. Scope**

The scope includes testing:

* **UI and Accessibility**: The visibility and accessibility of the Sign-out button.
* **Functionality**: Behaviour when clicking the Sign-out button.
* **Session Management**: Correct handling of the user session after logging out.
* **Redirection**: Ensuring that after the Sign-out action, the user is redirected correctly.
* **Security**: Ensuring the session is securely terminated.

**4. Features to be Tested**

* **UI Elements**:
  + Sign-out button visibility.
  + Sign-out button functionality.
  + Responsive layout for different devices (mobile, laptop).
* **Functionality**:
  + Successful sign-out and session termination.
  + Correct redirection to the Sign-in page or home page after signing out.
  + Confirmation or alert before sign-out (if applicable).
* **Security**:
  + Ensure the session is fully cleared, preventing unauthorized access after sign-out.
  + Test that no personal data remains accessible in the session after logging out.

**5. Test Cases**

Refer Sign-Out sheet in “Nayana Thakur TestCases Xalts.xlsx”

**6. Test Environment**

* **Operating Systems**: macOS, iOS
* **Browsers**: Google Chrome
* **Devices**: Laptop, Mobile

**7. Resources and Roles**

* **Testers**: QA Team
* **Tools**: Browser Developer Tools, Device Emulators, Selenium (for automation), Burp Suite (for security testing)

**8. Risks and Mitigation**

* **Risk**: The user session might not be properly cleared after logging out.
  + **Mitigation**: Verify that sessions are properly terminated, and sensitive data is not accessible after sign-out.
* **Risk**: The Sign-out button might not work properly across different browsers or devices.
  + **Mitigation**: Thoroughly test on supported browsers and devices available.
* **Risk**: Clicking the Sign-out button multiple times quickly might cause unexpected behaviour.
  + **Mitigation**: Ensure the Sign-out functionality is idempotent, meaning it can be safely triggered multiple times without errors.

**9. Conclusion**

This test plan ensures that the **Sign-out** button on the **XaltS Portal** works as expected, providing users with a smooth, secure log-out process. Testing includes validation of the functionality, security, usability, and cross-browser/device compatibility to ensure the system works consistently across different environments.