**1. Introduction**

This test plan is designed to ensure the functionality, security, and user experience of the **Blockchain creation** page on the **XaltS Portal** website. The page will allow users to add new blockchains.

**2. Test Objectives**

* Verify that all page elements are present and functional.
* Ensure the user can successfully create a new blockchain by entering valid data.
* Verify that the system handles invalid data and error messages appropriately.
* Verify that the Nodes can be deleted successfully.
* Ensure the security and privacy of the data entered by users.
* Ensure that the page is responsive and functional across multiple devices and browsers.

**3. Scope**

The scope of testing includes the following:

* Functionality testing of the page.
* Usability testing of the page.
* Validation of error handling.
* Security testing for input fields.
* Verification of visual UI elements.

**4. Features to be Tested**

* **Field Validations:**
  + Network name (valid format)
  + Wallet Address (length, valid format)
  + Node ID (length, valid format)
  + Public IP (length, valid format)
* **UI Elements:**
  + Form fields (Network name, Node ID, Public IP, Wallet Address)
  + Next, Back and Submit Buttons
  + Error/Success messages
  + Visual layout (text alignment, colour scheme)
* **Form navigation:**
  + Successful navigation with valid data.
  + Validation and error messages for incorrect or missing input.
  + Check for missing required fields.
* **Network name**
  + Format
* **Node ID validation:**
  + Format
* **Wallet Address Verification:**
  + Format
  + Length
  + Prevent invalid data
* **Public IP Verification:**
  + Format
  + Length
  + Prevent invalid data
* **Mobile Responsiveness:**
  + Verify that the page is responsive across various devices (mobile, desktop)

**5. Test Cases**

Please refer OB OCN Node 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**: Chrome Browser, Selenium (for automation testing)

**8. Risks and Mitigation**

* **Risk**: Invalid form input may not be properly handled
  + **Mitigation**: Review backend validation and ensure front-end validation is working properly.
* **Risk**: Inconsistent behaviour across devices/browsers
  + **Mitigation**: Test on multiple browsers and devices to ensure compatibility.

**9. Conclusion**

This test plan covers the functional, usability, and security testing of the Blockchain creation page on the XaltS portal. It aims to ensure that users have a seamless experience while adding blockchain and that all validation and error-handling processes are in place to prevent incorrect data submission.