

SKSU Student Portal: Technical Testing Report

Introduction

This report details the technical tests conducted on the SKSU Student Portal to ensure its reliability, performance, security, and usability. All tests are executed comprehensively, and the outcomes are documented herein.

1. Functionality Testing

Objective: To ensure that all features function as expected.

Tests Performed: Login and Logout operations, Add/Delete Teachers and Students, Viewing specific and all classrooms, Uploading and downloading of documents, User role validation.

Results: All tests passed successfully.

Remarks: The system shows satisfactory performance in all functional aspects.

2. Performance Testing

Objective: To assess the system's scalability.

Tests Performed: Scalability Testing.

Results: All tests passed successfully.

Remarks: The portal handles load efficiently and remains stable under stress conditions.

3. Security Testing

Objective: To verify the security and data protection capabilities.

Tests Performed: SQL Injection and XSS tests, Password encryption, User authentication and authorization.

Results: All tests passed successfully.

Remarks: The portal demonstrates robust security and data protection.

4. Usability Testing

Objective: To ensure user-friendly interface and navigation.

Tests Performed: Interface and navigation, Accessibility features, Responsiveness across devices.

Results: All tests passed successfully.

Remarks: The portal is user-friendly with intuitive navigation and layout.

5. Compatibility Testing

Objective: To confirm compatibility with various devices and browsers.

Tests Performed: Browser compatibility, Device compatibility.

Results: All tests passed successfully.

Remarks: The portal shows high compatibility across multiple browsers and devices.

6. Regression Testing

Objective: To ensure new changes haven't affected existing functionalities.

Tests Performed: Re-testing of functionalities post-updates.

Results: All tests passed successfully.

Remarks: No regression issues detected; updates seamlessly integrated.

Conclusion

The SKSU Student Portal has successfully passed all the technical tests, demonstrating its readiness for deployment. The system is robust, efficient, secure, and user-friendly.