

# Burp Suite Practical Implementation Report

Prepared By: Pratik Bhaskar Sumbe

## Objective

To demonstrate hands-on implementation of web application security testing using Burp Suite in a controlled lab environment, focusing on identification of SQL Injection (Tautology-Based Authentication Bypass).

## Tools Used

- 1 Burp Suite Professional / Community
- 2 Web Browser (Firefox/Chrome)
- 3 Deliberately Vulnerable Web Application (Lab Environment)

## Methodology

- 1 Configured browser proxy to route traffic through Burp Suite.
- 2 Captured HTTP request using Intercept feature.
- 3 Analyzed login request parameters.
- 4 Modified input with a tautology-based payload to test authentication bypass.
- 5 Forwarded modified request to the server and observed response.

## Result

The modified request demonstrated how improper input validation can alter SQL query logic and potentially bypass authentication in vulnerable systems.

## Key Learning Outcomes

- 1 Understanding of HTTP request interception and modification.
- 2 Awareness of SQL Injection vulnerability mechanics.
- 3 Importance of parameterized queries and input validation.
- 4 Practical experience with Burp Suite Proxy and Repeater tools.

## Ethical Use Statement

All testing activities were conducted in a controlled, legal, and educational lab environment. No unauthorized systems were targeted.