

Task 1: Web Application Security Testing

Objective

Conduct security testing on a sample web application to identify vulnerabilities like SQL injection, XSS, and authentication flaws.

Project Specifications

Task Description

- Perform penetration testing on a demo web application.
- Focus on detecting common vulnerabilities such as:
 - SQL Injection (SQLi)
 - Cross-Site Scripting (XSS)
 - Authentication flaws

Skills Gained

- Web application security
- Ethical hacking techniques
- Penetration testing methodologies

Tools & Technologies

- OWASP ZAP
- Burp Suite
- SQLMap

Deliverables

- A **detailed security report** with:
 - Identified vulnerabilities
 - Risk analysis
 - Recommended mitigation strategies