

Website Security Research Project

Instruction Document

CS 467 - Summer 2021

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To begin, the user should navigate to localhost after setting up the environment as instructed in the Installation Documentation. You will be greeted by a listing of the various vulnerabilities as different links.

## **Vulnerable Site**

[Vulnerability 1: Injection](#)

**Vulnerability 2: Broken Authentication**

**Vulnerability 3: Sensitive Data Exposure**

[Vulnerability 4: XML External Entities](#)

[Vulnerability 5: Broken Access Control](#)

[Vulnerability 6: Security Misconfiguration](#)

[Vulnerability 7: Cross-Site Scripting - Vulnerable](#)

[Vulnerability 7: Cross-Site Scripting - Secured](#)

**Vulnerability 8: Insecure Deserialization**

**Vulnerability 9: Using Components With Known Vulnerabilities**

**Vulnerability 10: Insufficient Logging & Monitoring**

*Figure 1. Home page.*

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The user should navigate to one of the links on the home page and follow the instructions in the Write-Ups document. It will guide the user through the vulnerability and provide details of how to defend against it. In addition to the basics of explaining the vulnerability on the site, the Write-Ups document includes information on how the vulnerability works and how to defend against it. By reading this document and working with the site, the user will be able to successfully demonstrate the vulnerability and learn about its cause and prevention.