



# WEB APPLICATION PENTRATION TESTING

TARGET: OWASP JUICE SHOP

# OUR TEAM

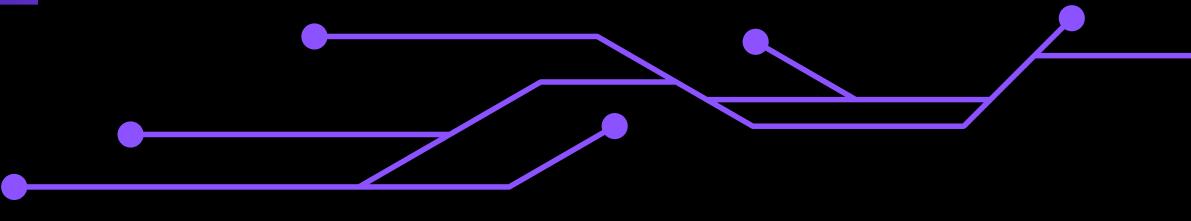
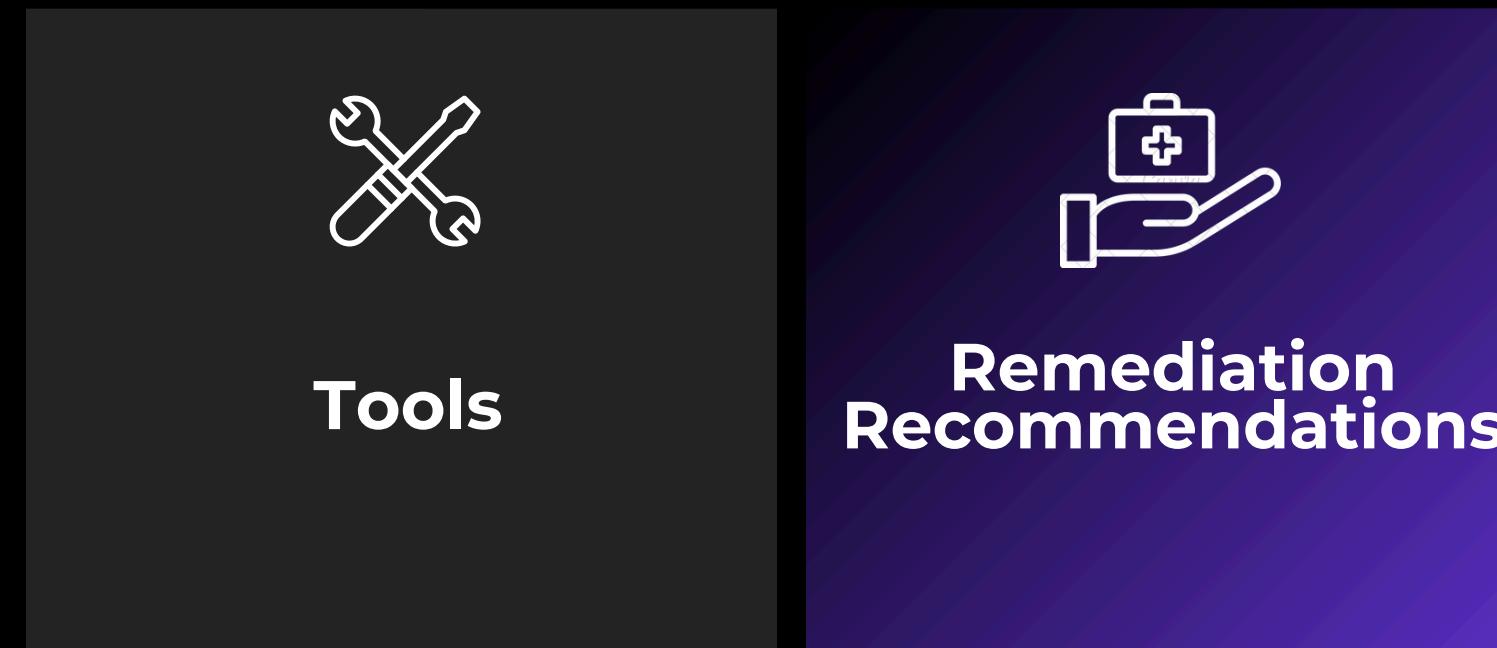
**Mohammed Usama**

**Mohamed Essam**

**Fares Ahmed**

**Mahmoud Emara**

# AGENDA



# INTODUCTION

- 1 What is Our Tack?
- 2 Hacker Vs Pentryation Tester
- 3 Project Intorduction





# OWASP JUICE SHOP

## 1 Introduction to OWASP Juice Shop

Introduction to OWASP Juice Shop  
A vulnerable web application for security training.

## 2 Purpose

To learn and practice web application security skills.

## 3 Scope

Identify vulnerabilities within the application.

# METHODOLOGY



1

## Information Gathering

Reconnaissance and footprinting techniques were used.

2

## Vulnerability Analysis

Automated and manual scanning tools were employed.

3

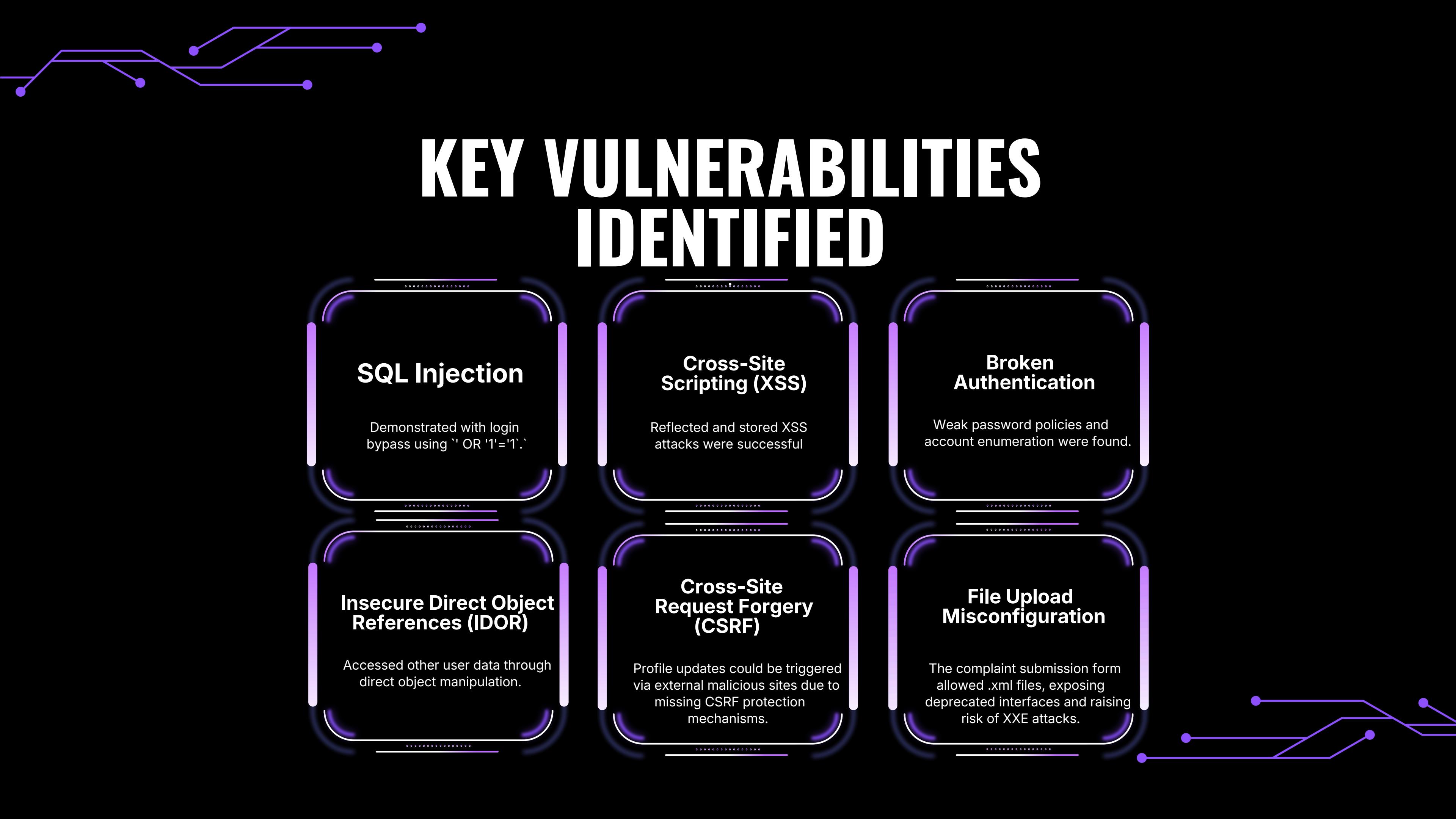
## Exploitation

Confirmed vulnerabilities and assessed their impact.

3

## Reporting

Documented findings and prioritized risks



# KEY VULNERABILITIES IDENTIFIED

## SQL Injection

Demonstrated with login bypass using '' OR '1'='1'.'

## Cross-Site Scripting (XSS)

Reflected and stored XSS attacks were successful

## Broken Authentication

Weak password policies and account enumeration were found.

## Insecure Direct Object References (IDOR)

Accessed other user data through direct object manipulation.

## Cross-Site Request Forgery (CSRF)

Profile updates could be triggered via external malicious sites due to missing CSRF protection mechanisms.

## File Upload Misconfiguration

The complaint submission form allowed .xml files, exposing deprecated interfaces and raising risk of XXE attacks.

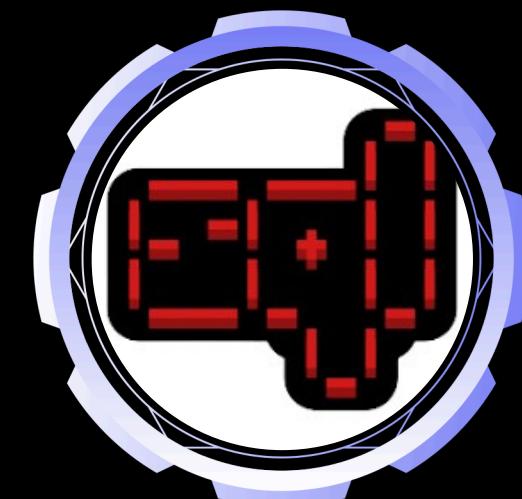
# TOOLS



Wepplazer



Burp Suite



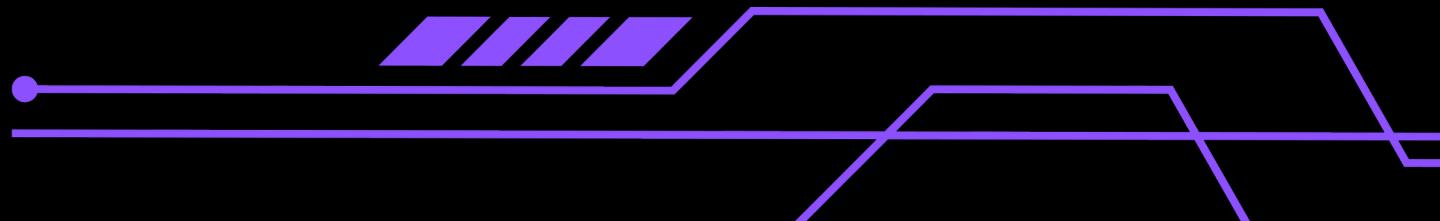
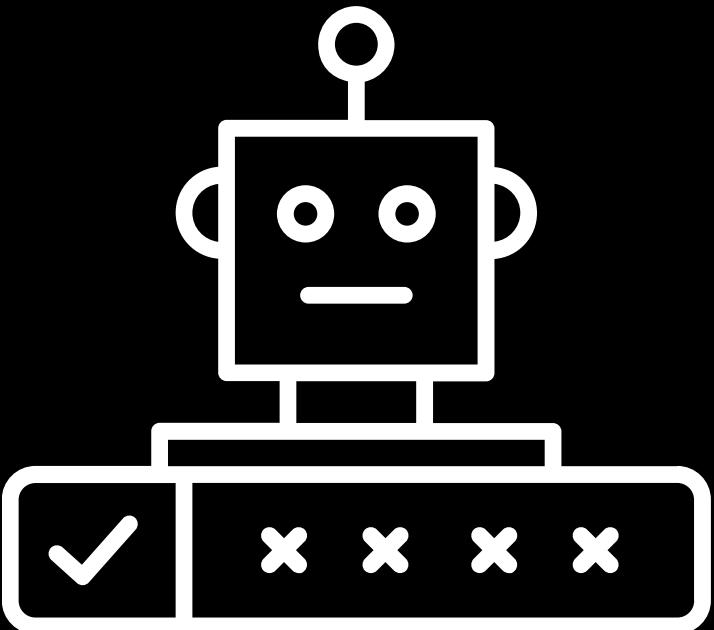
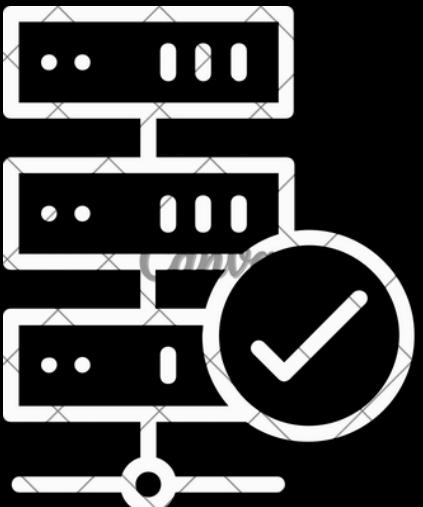
SQLmap



Automated scanner

# REMEDIATION RECOMMENDATIONS

- 1 Enforcing robust server-side validation and authorization.
- 2 Eliminating deprecated features and legacy file handlers.
- 3 Strengthening CAPTCHA systems with session-bound tokens.
- 4 Sanitizing all user inputs and using prepared statements.
- 5 Applying CSRF protection, secure headers, and role-based access control.



# DOCUMENTATION GITHUB

To see the full Documentation, please visit the GitHub Repo

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<https://github.com/Muhammed-Usama/DEPI-VPT-Project.git>



# THANKS

