Project Submitted By

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Project Code

45DP134

Project Name

XSS Vulnerability Web Application lab

Abstract

The **XSS Vulnerability Web Application Lab** is designed to provide a hands-on environment for understanding and mitigating **Cross-Site Scripting (XSS) attacks** in web applications. This project demonstrates different types of XSS vulnerabilities, including **Stored, Reflected, and DOM-based XSS**, allowing users to exploit them and analyze their impact. By simulating real-world attack scenarios, the lab helps developers and security enthusiasts learn how attackers inject malicious scripts and how these vulnerabilities can compromise user data and system security. Additionally, the project emphasizes **mitigation strategies** such as **input validation, output encoding, and implementing security headers** to prevent XSS attacks. The ultimate goal is to promote **secure web development practices** and enhance awareness of web application security risks.

Domain

Web Development, VAPT, Cyber Security

Technologies Used

1. Frontend Technologies: HTML, CSS, JavaScript
2. Backend Technologies: PHP,MySQl
3. Security Testing & Development Tools: Burp Suite & OWASP ZAP, XAMPP

Tools Used

1. Development Tools: VS Code , XAMPP
2. Web Technologies & Frameworks: HTML, CSS, JavaScript, MySQL
3. Security Testing Tools: Burp Suite, OWASP ZAP

Project Link (if the project is hosted somewhere)

GitHub Repository

Instructions to run the project

1. **Clone the Repository**

git clone <https://github.com/gitprogamforvenom/xss-project-.git>

cd xss-project-

**2.Move the Project to XAMPP Folder(demo)**

Copy or move the cloned folder to:

makefile

C:\xampp\htdocs\demo

**3.Start XAMPP Services**

Open XAMPP Control Panel.

Start the following services:

Apache (For PHP)

MySQL (If using a database)

* **Running the Web Page**

Open your web browser.

Enter the following URL:

http://localhost/demo/index.php

* **Database Setup (If Applicable)**

If your project requires a MySQL database, follow these steps:

**1.Open phpMyAdmin**

Go to:

http://localhost/phpmyadmin

**2.reate a New Database**

Click Databases.

Enter the database name (e.g., xss\_example).

Click Create.

**3.Configure Database Connection**

Update db\_connect.php with the following:

<?php

$servername = "localhost";

$username = "root";

$password = "";

$database = "xss\_example";

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

echo "Connected successfully";

?>

* **Pushing Updates to GitHub**

After making changes, push updates to GitHub:

git add .

git commit -m "Updated PHP Web Page"

git push origin main

* **Additional Information**

Make sure Apache and MySQL are running before accessing the website.

If index.php does not load, ensure your project is inside htdocs.

Use phpinfo(); inside a PHP file to check PHP settings.

Output Images / Screenshots / Files