**Cross-Site Scripting Attack Demonstration**

The aim of this project is to show how a cross-site script attack occurs through a website and what methods and capabilities that are used to make this attack happen and how attackers use scripts and cookies to steal and get through the user’s data and how an attacker finds vulnerabilities through certain unsecured websites, furthermore we will notify you about how to prevent such vulnerabilities and protect the website from such attacks.

Omar Dayya 201611504 – Demonstrate a Cross-site scripting attack

Barış Mert 201611041 – Demostrate of how to prevent against Cross-Site Scripting attacks

References:

<https://owasp.org/www-community/attacks/xss/> - Definition and description of cross-site scripting and types of XSS attacks and how determine if the website is vulnerable against XSS attacks

<https://en.wikipedia.org/wiki/Cross-site_scripting> - Detailed explanation of XSS attacks and its contents including types, exploit examples, and preventive measures.

<https://www.youtube.com/watch?v=L5l9lSnNMxg> - Explanation of XSS attack with a sample using html tags and defines how dangerous JavaScript can be towards websites using vulnerabilities like search bars, comment section, and etc.

<https://www.youtube.com/watch?v=T1QEs3mdJoc> – Explains how cookies are generated and tracked by the user and how an attacker can steal cookies and pretend to be the victim to steal user’s data using XSS attack and demonstrates it through a PHP sample code with a database connection.

<https://www.youtube.com/watch?v=9kaihe5m3Lk> – Code sample using JavaScript to test vulnerability of a website using alert function and shows how to destroy a website.

<https://www.youtube.com/watch?v=ns1LX6mEvyM> - Explains basically what is XSS and how to be vulnerable for attack.

<https://www.indusface.com/blog/xss-examples-prevent/> - Shows types of XSS and preventing process.

<https://www.wordfence.com/learn/how-to-prevent-cross-site-scripting-attacks/> - Provides comprehensive visual and practical examples about preventing.

<https://www.youtube.com/watch?time_continue=58&v=0Oz645g3Wh0&feature=emb_title> - Describes preventing from XSS attack with basic visual contents.

<https://www.hacksplaining.com/prevention/xss-stored> - Determines XSS hackers methods.