ASSIGNMENT - 1

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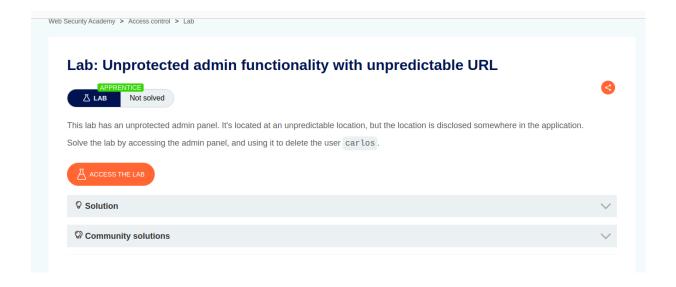
a. List of Vulnerable Parameter.

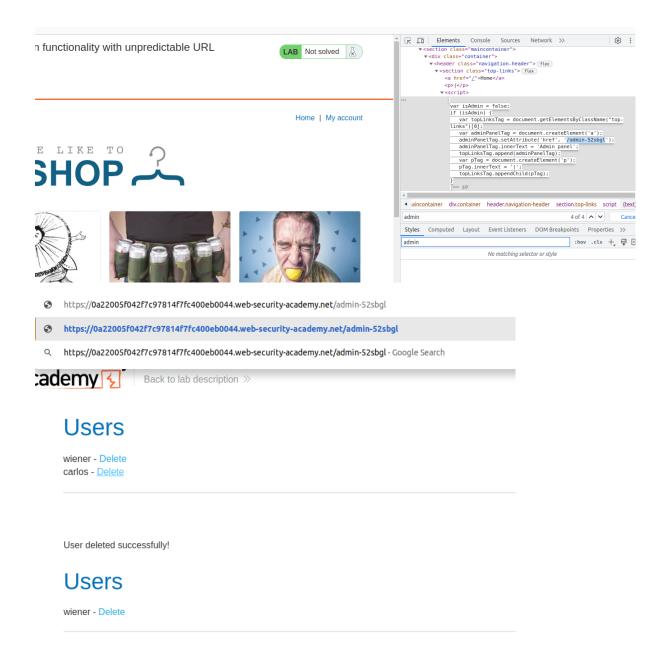
1. CWE: CWE-284: Improper Access Control

OWASP CATEGORY: A01 2021 Broken Access Control

DESCRIPTION: The product does not restrict or incorrectly restricts access to a resource from an unauthorized actor.

BUSINESS IMPACT: can harm businesses by enabling unauthorized users to access sensitive data, causing data breaches, financial loss, reputation damage, legal issues, operational disruptions, intellectual property theft, and increasing insider threat risks.





 Improper access controls can help attacker in altering or permanently deleting an existing user.

2. CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm

OWASP CATEGORY: A02 2021 Cryptographic Failures

DESCRIPTION: The product uses a broken or risky cryptographic algorithm or protocol.

BUSINESS IMPACT: can seriously impact businesses by compromising data security, leading to potential breaches, loss of trust, regulatory penalties, and operational disruptions.



er up to 20 non-salted hashes, one per line:		
1402abc4b2a76b9719d911017c592		
	I'm not a robot	reCAPTCHA Privacy - Terms
	Crack Hashes	
pports: LM, NTLM, md2, md4, md5, md5(md5_hex), md5-half, sha1, sha224, sha256, sha384, sha512, ripe	MD160, whirlpool, MySQL 4.1+ (sha1(sha1_bin)), QubesV3.1Back	:upDefaults
Hash	Туре	Result
5d41402abc4b2a76b9719d911017c592	md5	hello

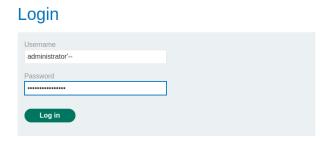
3. CWE: CWE-564: SQL Injection: Hibernate

OWASP CATEGORY: A03 2021 Injection

DESCRIPTION: Using Hibernate to execute a dynamic SQL statement built with user-controlled input can allow an attacker to modify the statement's meaning or to execute arbitrary SQL commands.

BUSINESS IMPACT: allows attackers to manipulate database queries through vulnerabilities in Hibernate, potentially leading to unauthorized data access, breaches, financial losses, legal issues, and reputation damage.





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My Account

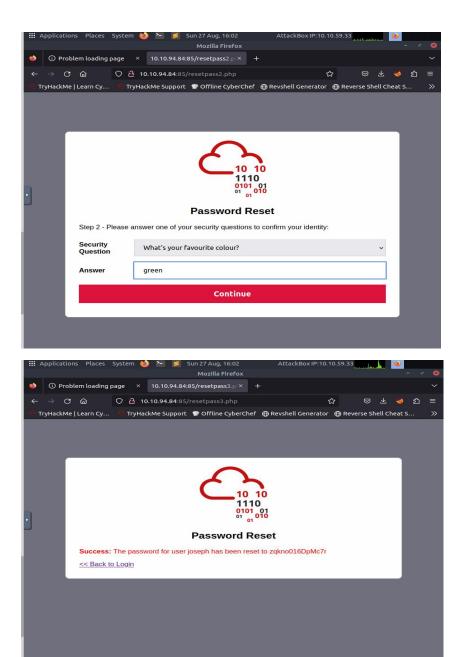


• SQL Statements can be used to modify the table and gain access to users' data.

4. CWE: CWE-657: Violation of Secure Design Principles OWASP CATEGORY: A04 2021 Insecure Design

DESCRIPTION: The product violates well-established principles for secure design.

BUSINESS IMPACT: has substantial business implications due to its potential to result in vulnerabilities and weak security structures. This can lead to data breaches, financial losses, reputational damage, and regulatory penalties.



- Violation of security design principles includes poor security designing.
- The chances of an attacker stealing passwords is higher when poor security related questions are set.

5. CWE: CWE-319: Cleartext Transmission of Sensitive Information

OWASP CATEGORY: A05 2021 Security Misconfiguration

DESCRIPTION: The product transmits sensitive or security-critical data in cleartext in a communication channel that can be sniffed by unauthorized actors.

BUSINESS IMPACT: can harm businesses by exposing confidential data during transmission, leading to data breaches, compromised customer trust, regulatory violations, and potential legal consequences.



- Websites with http allows attackers to steal sensitive information.
- In the absence of an SSL certificate, all your communications are not encrypted at all. Meaning attackers have access to all the data.
- Sensitive Information must only be channelled through HTTPS communications.