CYBER SECURITY JULY MINOR PROJECT

PROBLEM STATEMENT

2.

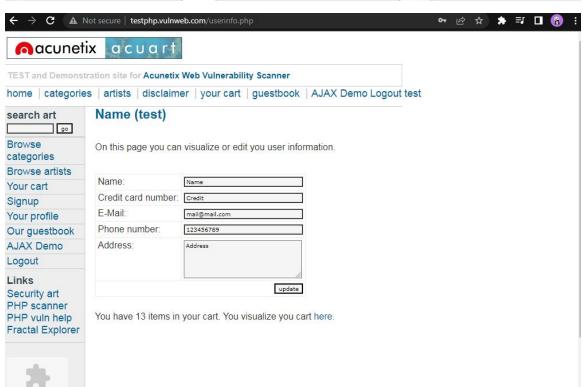
Perform SQL injection on by on http://testphp.vulnweb.com .Write a report along with screenshots and mention preventive steps to avoid SQL injections.

INTRODUCTION

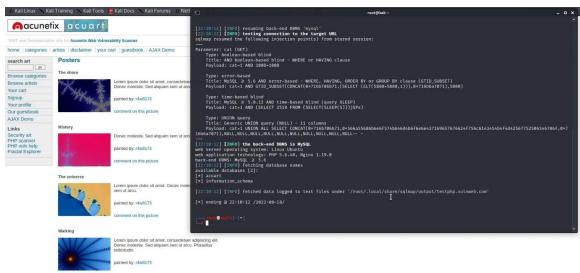
A SQL injection is a technique that attackers use to gain unauthorized access to a web application database by adding a string of malicious code to a database query. A SQL injection (SQLi) manipulates SQL code to provide access to protected resources, such as sensitive data, or execute malicious SQL statements.

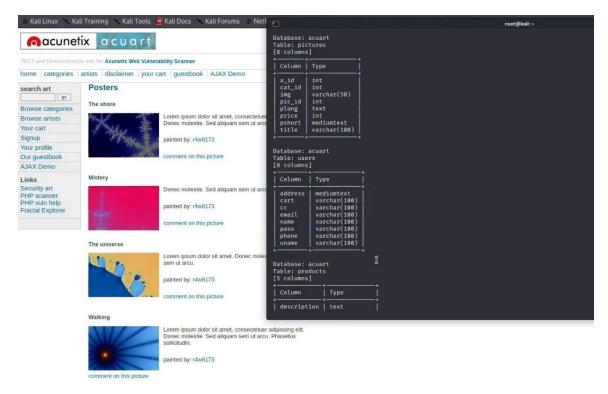
REPORT

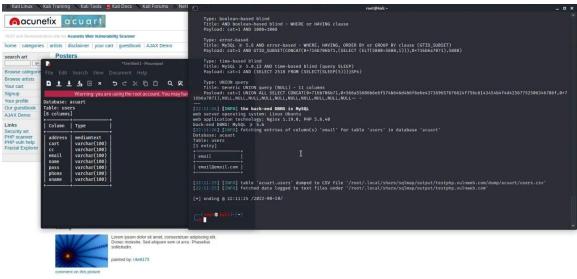












STEPS TO AVOID SQL INJECTIONS:

The only sure way to prevent SQL Injection attacks is input validation and parametrized queries including prepared statements. The application code should never use the input directly. The developer must sanitize all input, not only web form inputs such as login forms. They must remove potential

malicious code elements such as single quotes. It is also a good idea to turn off the visibility of database errors on your production sites. Database errors can be used with SQL Injection to gain information about your database. If you discover an SQL Injection vulnerability, for example using an Acunetix scan, you may be unable to fix it immediately. For example, the vulnerability may be in open source code. In such cases, you can use a web application firewall to sanitize your input temporarily.

- 1: Train and maintain awareness.
- 2: Don't trust any user input.
- 3: Use whitelists, not blacklists.
- 4: Adopt the latest technologies.
- 5: Employ verified mechanisms.
- 6: Scan regularly (with Acunetix).