Ethical Hacking Report By Rida Mudassar DHC-377

1. Test Target:

- Application: OWASP Juice Shop (running locally on http://localhost:3000)
- Tools Used: Burp Suite, Browser Developer Tools

2. Vulnerability 1 - SQL Injection

• Test Endpoint:

GET /rest/products/search?q=

• Payload Used:

• Observation:

Products were returned even with broken SQL logic, indicating a possible SQL injection vulnerability.

• Conclusion:

The application was vulnerable to basic SQL injection in the product search field.

3. Vulnerability 2 - Cross-Site Request Forgery (CSRF)

• Test Endpoint:

GET /rest/user/change-password

• Test Performed:

Tried sending a CSRF attack via a crafted HTML page using an tag.

• Observation:

The password did not change. Login failed with new password.

• Conclusion:

CSRF protection was present on this endpoint. The attack was blocked.

Security Fixes for SQLi and CSRF Implemented in the Code

Security Fixes for SQLi and CSRF

• SQL Injection Fix:

This vulnerability was already mitigated earlier during Week 1-3 tasks by using parameterized queries in the backend code.

• CSRF Fix:

CSRF protection is already implemented in the Juice Shop application. No changes were made in this task.

 No new fixes were required as both issues were already handled in the existing codebase.