

PROJECT 2: Insecure Juice Shop

Threat Assessment

- Identify all components of the Juice Shop application and explain their function.
- Conduct an architecture audit of Udajuicer.
- Build a Threat Model and identify threats or vulnerabilities.
- Identify what sort of attack is taking place by looking at web server logs.
- Identify the possible threat actor and their motivation for wanting to take down the Udajuicer's website.

Vulnerability Analysis

- Login as Admin on the Udajuicer site by exploiting a SQL injection vulnerability.
- Exploit a XSS Vulnerability.

Prioritization of Risks

- Rank risks based on the negative impact on the organization.
- Explain the rationale behind the risk ranking.

Mitigation Plan

- Design a secure architecture for the website,
- Build a countermeasure for the identified attack Udajuicer is facing.
- Suggest possible solutions to prevent SQL Injection attacks and how their prevention method works.
- Suggest possible solutions to prevent XSS attacks and how their prevention method works.