



# CSTAD

## Pen-testing report

Date: [21 December 2023 - 10:24:21 AM]

From Pen-tester	To Target
[CSTAD]	Foodie shop

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## Change

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## Contact

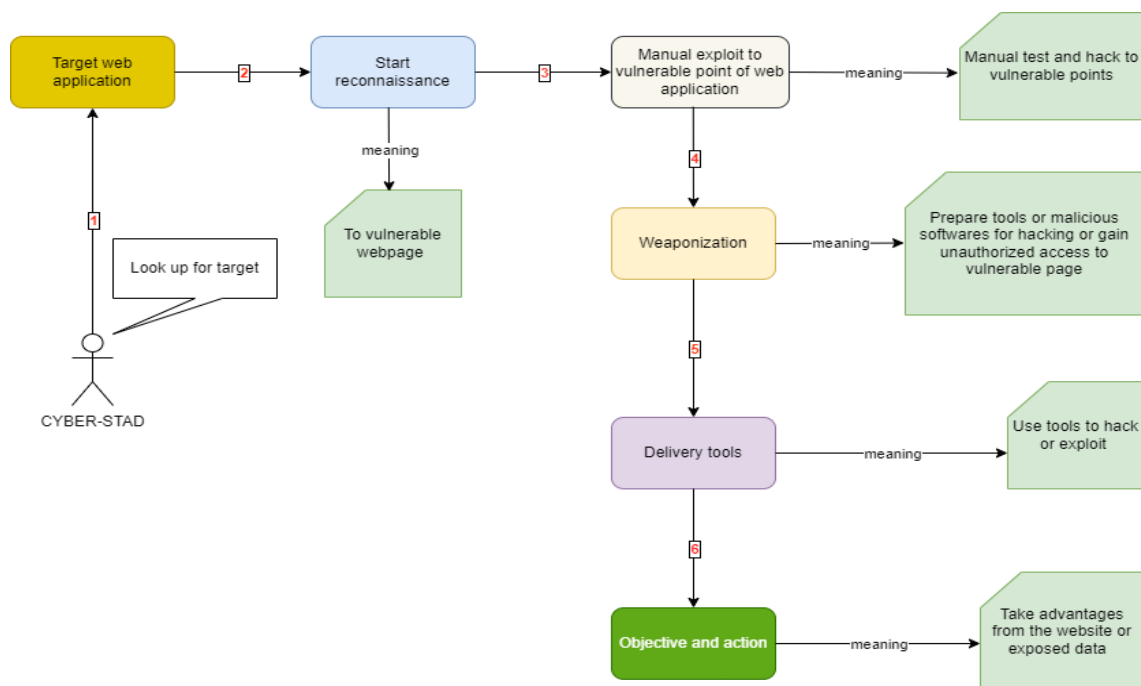
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## Change Log

Date	Version	Comments
1/12/2023	0.1	Initial Report
2/12/2023	0.2	Recon Stage
20/12/2023	0.3	Finalizing Stage

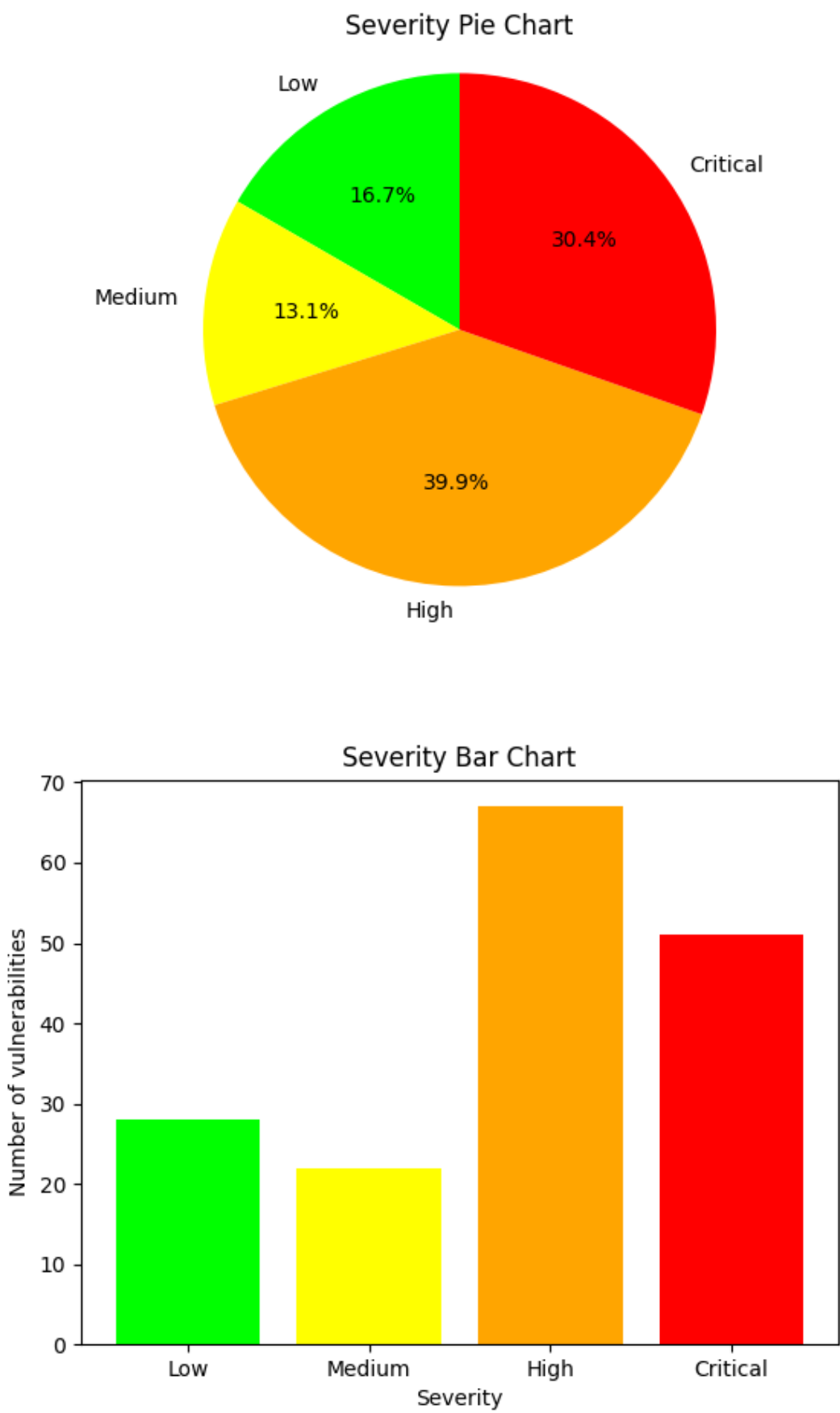
## Executive Summary

CSTAD engaged CYBER-STAD to conduct a security assessment and penetration testing against a website. The main goal of the engagement was to evaluate the security of the platform and identify possible threats and vulnerabilities. This report details the scope of the engagement, detailed information about all of the findings and some recommendations. The summary below is intended for non-technical audiences to give an idea of the overall results of the engagement and the key findings. The second section of this report is intended for a technical audience as it lists all of our findings in detail, along with reproduction steps, analysis, and recommendations. Based on the security assessment we carried for [platform] and based on our findings, the current risk rating is high. The vulnerabilities discovered can be used by malicious actors to cause breaches and even gain unauthorized access to some management pages. The methodology followed is detailed in the following diagram:



The following charts summarize the findings grouped by severity of the threat:

Vulnerabilities Breakdown



# 1 Engagement Summary

## 1.1 Scope

As requested, the security assessment was only carried out on the following targets:

IP Address: 54.221.11.310

cstad.shop

food.cstad.shop

coffee.cstad.shop

koko.cstad.shop

mama.cstad.shop

## 1.2 Risk Ratings

The vulnerability risk was calculated based on the Common Vulnerability Scoring System (CVSS v3.0) which is the industry standard for assessing the severity of security vulnerabilities.

The table below gives a key to the risk naming and colours used throughout this report to provide a clear and concise risk scoring system.

Risk	CVSS v3.0 Score	Recommendation
None	0.0	N/A
Low	0.1 - 3.10	Fix at the next update cycle.
Medium	4.0 - 6.10	Fix immediately if there are 0 high risk vulnerabilities.
High	7.0 - 8.10	Fix immediately if there are 0 critical vulnerabilities.
Critical	10.0 - 10.0	Fix immediately.

## 1.3 Findings Overview

Below is a list of all the issues found during the engagement along with a brief description, its impact and the risk rating associated with it. Please refer to the 'Risk Ratings' section for more information on how this is calculated.

ID	Risk	Description
1	Hard	SQL Injection leading to unauthorized database access.
2	medium	CSRF - Clients can be forced to submit certain non-critical requests.

3	low	PHP version disclosure - Can help develop attacks for this specific version.
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## 2 Technical Details

### 2.1 SQL Injection CRITICAL ID: 1

We discovered that using specially crafted requests a malicious actor can communicate with the database and query it to retrieve stored data including data stored in the users tables.

<b>URL</b>	https://food.cstad.shop
<b>Parameter</b>	id
<b>References</b>	<a href="https://owasp.org/www-community/attacks/SQL_Injection">https://owasp.org/www-community/attacks/SQL_Injection</a>
<b>Request</b>	POST rest/user/login HTTP/1.1 Host: domain.shop Accept: application/json, text/plain, */*
<b>Response</b>	HTTP/1.1 200 OK Content-Type: application/json; charset=utf-8 Vary: Accept-Encoding

### [+] How to prevent SQL Injection CRITICAL ID: 1

Preventing injection requires keeping data separate from commands and queries:

1. The preferred option is to use a safe API, which avoids using the interpreter entirely, provides a parameterized interface, or migrates to Object Relational Mapping Tools (ORMs).  
[+] Note: Even when parameterized, stored procedures can still introduce SQL injection if PL/SQL or T-SQL concatenates queries and data or executes hostile data with EXECUTE IMMEDIATE or exec().
2. Use positive server-side input validation. This is not a complete defense as many applications require special characters, such as text areas or APIs for mobile applications.
3. For any residual dynamic queries, escape special characters using the specific escape syntax for that interpreter.  
[+] Note: SQL structures such as table names, column names, and so on cannot be escaped, and thus user-supplied structure names are dangerous. This is a common issue in report-writing software.
4. Use LIMIT and other SQL controls within queries to prevent mass disclosure of records in case of SQL injection.