

# SQL Injection Vulnerability Report

Lab: SQL Injection – Extracting  
Hidden Data

Platform: PortSwigger Web Security  
Academy

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# Objective

The objective of this lab was to identify and exploit a SQL Injection vulnerability

that allows extraction of hidden data from the database.

# Vulnerability Type

SQL Injection (Boolean-based)

OWASP Category: A03 – Injection

# Target Description

The target application contains a product listing page that uses a SQL query

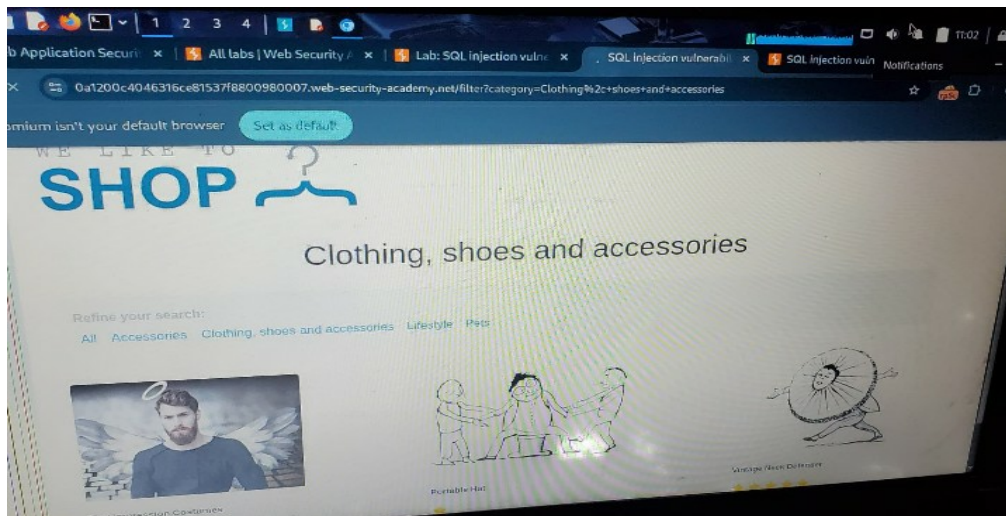
to retrieve products from the backend database based on category input.

# Vulnerability Discovery

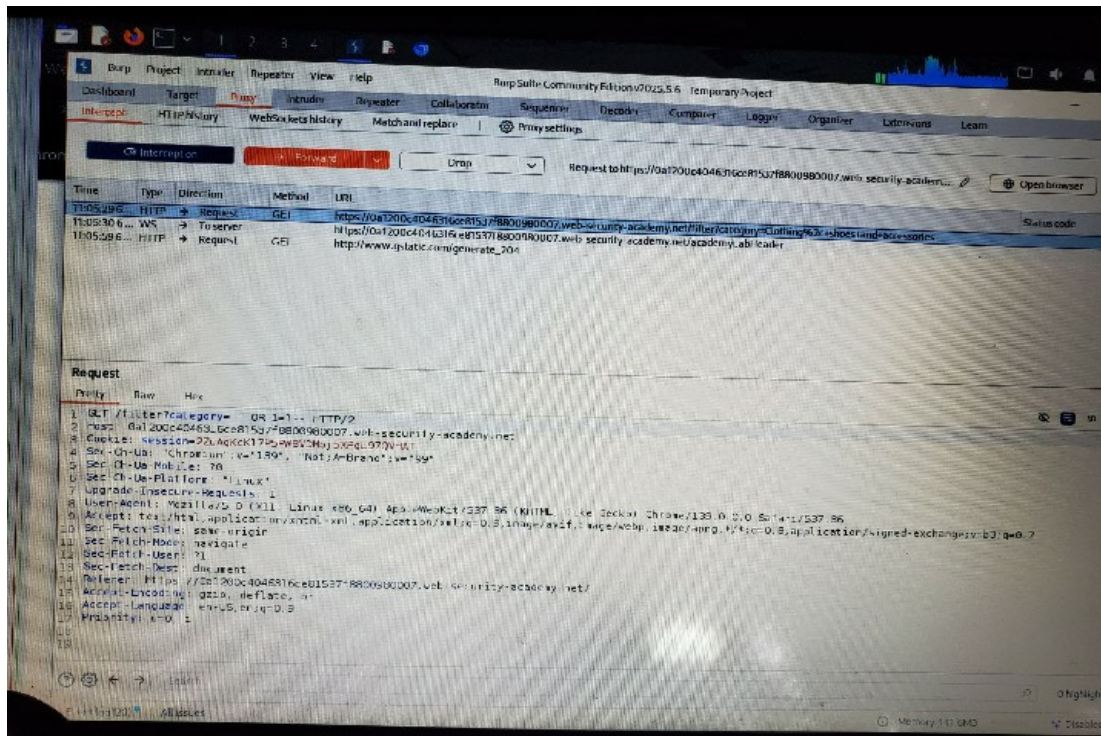
The category parameter was tested by injecting a single quote (') which resulted in an SQL error, indicating improper input sanitization.

# Exploitation Steps

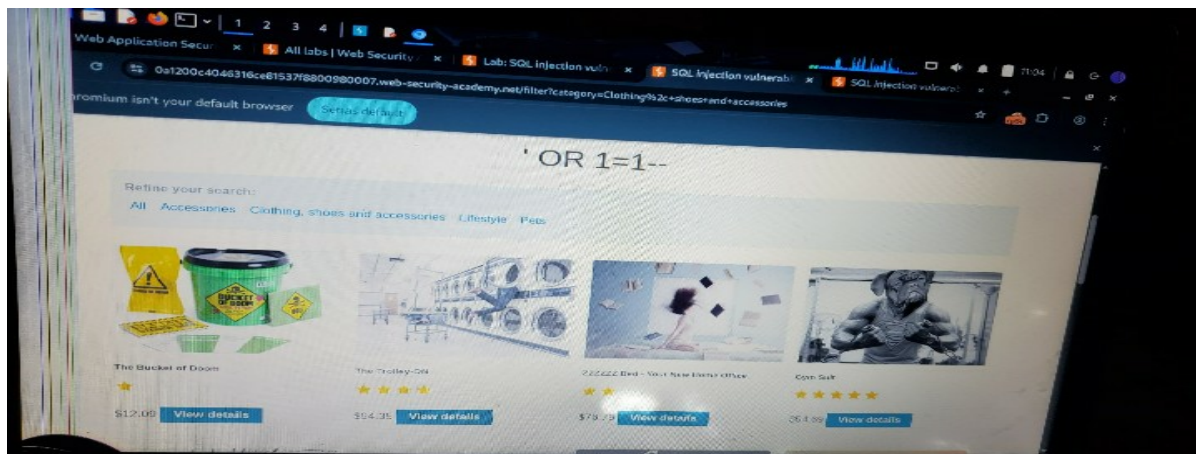
1. Intercepted the request using Burp Suite.
2. Identified the vulnerable 'category' parameter.
3. Injected the following payload: ' OR 1=1--
4. The application returned all products, including hidden items.



**Before injection**



## Injecting the payload



## After injection (hidden items visible)

# Impact

An attacker could exploit this vulnerability to access unauthorized data, potentially exposing sensitive business information.

# Remediation

- Use prepared statements (parameterized queries)
- Implement proper input validation
- Avoid dynamic SQL queries