

# Technical Details of Identified Web Application Vulnerabilities

#	Vulnerability	Risk Level	Status
1	SQL Injection	High	Open
2	Cross-Site Scripting (XSS)	Medium	Open
3	Broken Authentication	High	Resolved

## 1. SQL Injection

**Description:** User input is not properly sanitized before being included in database queries, allowing attackers to alter query logic.

**Location:** /login

**Proof of Concept:** ' OR 1=1--

**Impact:** Database exposure including sensitive user data. Potential for data manipulation or deletion.

**Recommendation:** Use parameterized queries or prepared statements to handle user input.

## 2. Cross-Site Scripting (XSS)

**Description:** Application does not properly encode user-supplied data before rendering in HTML.

**Location:** /profile

**Proof of Concept:** <script>alert('xss')</script>

**Impact:** Session hijacking, credential theft, and defacement.

**Recommendation:** Encode all user-supplied data before rendering it in the browser.

## 3. Broken Authentication

**Description:** Insufficient password complexity requirements and insecure session management.

**Location:** /login, /session

**Proof of Concept:** Reuse of session tokens allows access without re-authentication.

**Impact:** Unauthorized access to user accounts.

**Recommendation:** Enforce strong password policies and implement secure session invalidation on logout.