Mitigating Top Security Threats



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SQL injection attacks



SQL injection attacks

Active
Directory
attacks



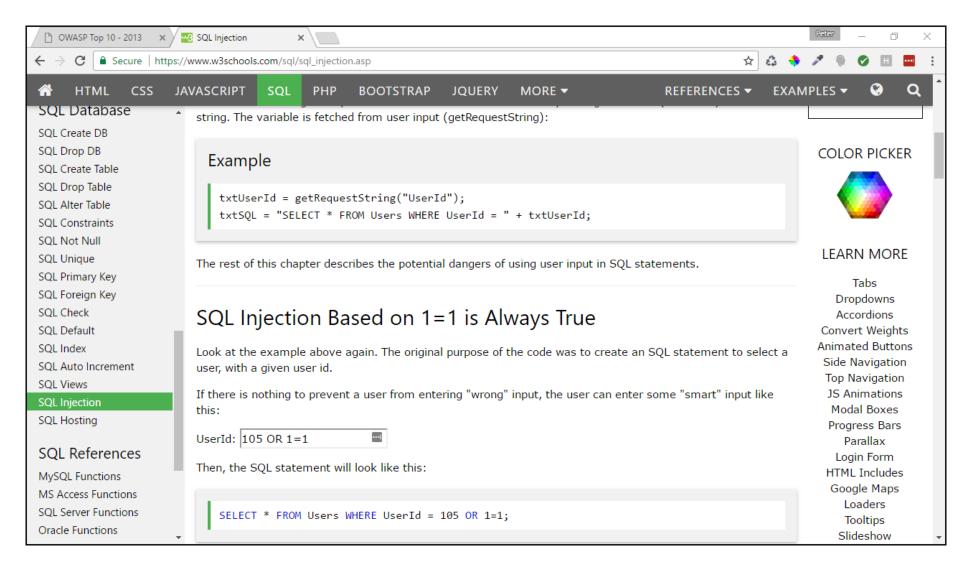
SQL injection attacks

Active
Directory
attacks

LDAP attacks



SQL Injection





SQL Injection

Example

```
txtUserId = getRequestString("UserId");
txtSQL = "SELECT * FROM Users WHERE UserId = " + txtUserId;
```

The rest of this chapter describes the potential dangers of using user input in SQL statements.

SQL Injection Based on 1=1 is Always True

Look at the example above again. The original purpose of the code was to create an SQL statement to select a user, with a given user id.

If there is nothing to prevent a user from entering "wrong" input, the user can enter some "smart" input like this:

```
UserId: 105 OR 1=1
```

Then, the SQL statement will look like this:

```
SELECT * FROM Users WHERE UserId = 105 OR 1=1;
```



OWASP TOP 10

A1 – Injection

A2 – Broken
Authentication and
Session
Management

A3 – Cross-Site Scripting (XSS)

A4 – Broken Access Control A5 – Security Misconfiguration

A6 – Sensitive Data Exposure

A7 – Insufficient Attack Protection A8 – Cross-Site Request Forgery (CSRF)

A9 – Using Components with Known Vulnerabilities

A10 – Underprotected APIs



Broken Authentication and Session Management

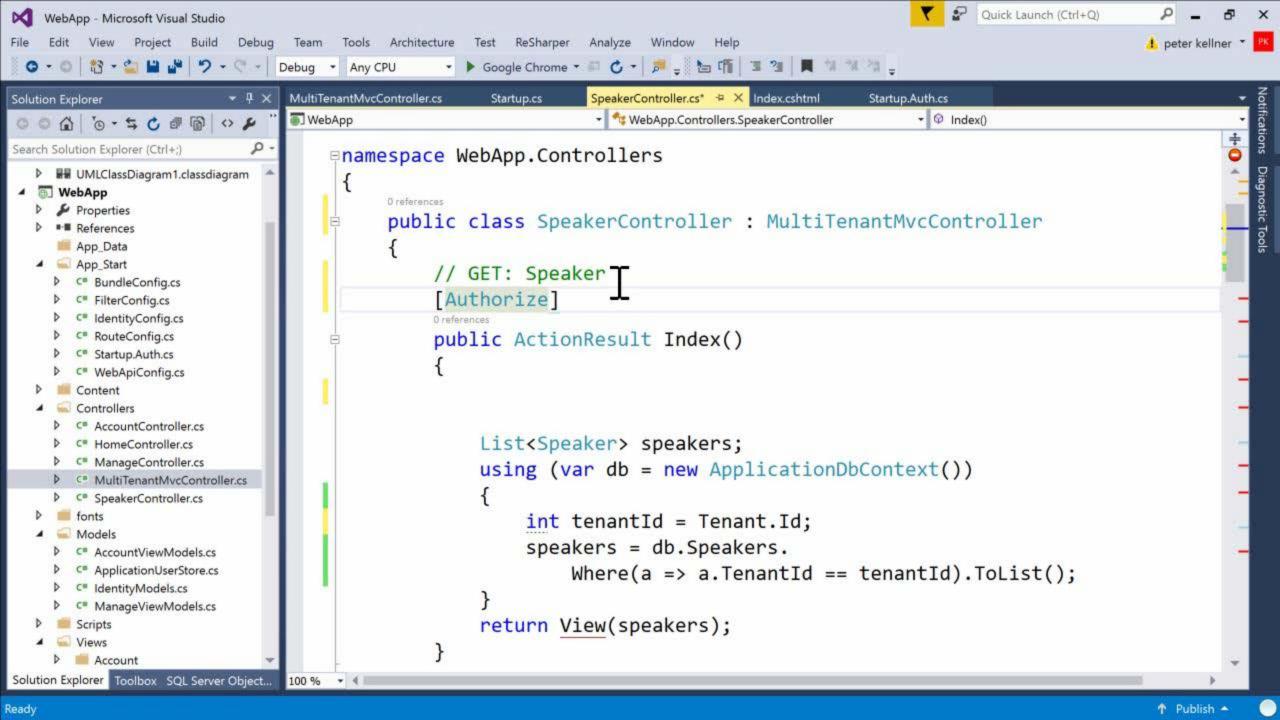


Cross-Site Scripting (XSS)



Broken Access Control





Security Misconfiguration



Sensitive Data Exposure



Insufficient Attack Protection



Cross-Site Request Forgery (CSRF)



Using Components with Known Vulnerabilities



Underprotected APIs



Summary



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