8/12/21 17:59 OneNote

## DOM-Based XSS

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The Document Object Model (DOM) presents an interesting problem from a security standpoint. It allows the content of a web page to be dynamically modified, but that can abused by attackers during a malicious code injection.

XSS is a type of malicious code injection that can occur when unvalidated user input is used directly to modify the content of a page on the client side

## Solution:

Inspect element of the text field input

```
<!--HTML fragment correpsonding to the lesson content-->
> div id="lessonContent"> @ </div>
<div id="message" class="info"></div>
<div id="lessonContent"></div></div>
         <input value="" onkeyup="displayGreeting(person.value)" name="person" type="TEXT"> ev
```

We can see that input field is using a JavaScript function named displayGreeting, which is listed in the script tag above.

Navigate to that link to see the JS source code.

Here we see..

```
function displayGreeting(name) {
    if (name != "){
             document.getElementById("greeting").innerHTML="Hello, " + name+ "!";
```

The user is inputing directly into the JS code.

Because of this, the user can simply type " in the input field to close the string and then insert malicious

JavaScript code directly onto the server.

In this case, we are inserting a .jpg file onto the webpage.

e.g. we will enter..

"<IMG src=images/logos/owasp.jpg>

Into the form field