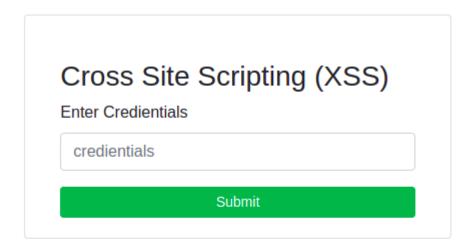
122022010 Shrayank Mistry Cross Site Scripting (XSS) Attack:

Demonstrate and implement Cross Site Scripting Attack using any simple web application. Implement its detection and prevention mechanisms using message dialog boxes.



Server Side:

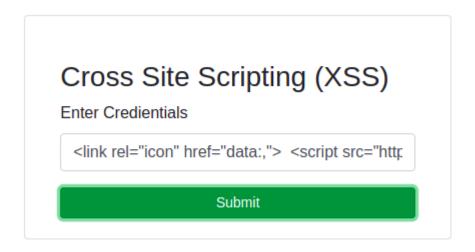
- Run the node server: \$ node app.js

Client Side:

- Copy code below
- Paste into input box above
- Click submit
- Open console
- Start typing random words
- You should see your letters displayed

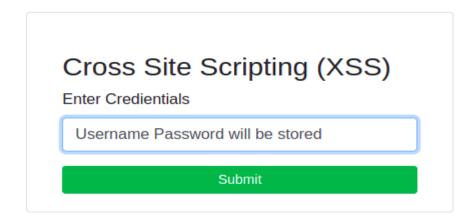
Simple web app to login using credentials vulnerable to XSS attack

Attack code when pasted in input text records all details typed in input after and sends to server



Copying attack in input box and submitting to insert JavaScript code in webpage to create attack

Attack code inserted in specific div (attack) as seen in code inspect of google chrome



User enters username and password unaware of attack through XSS

Username and Password as seen on the server side of the attack

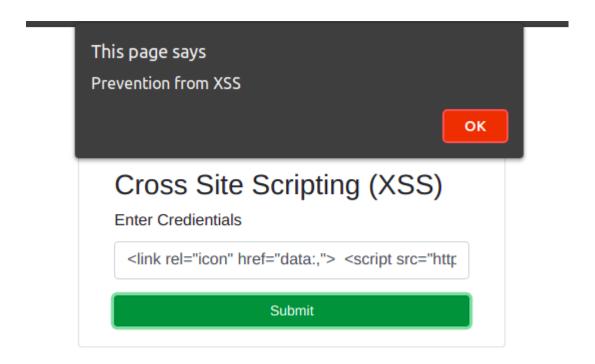
```
var pattern = /<(.*)>/;

function hasHtmlTags(string) {
    return pattern.test(string);
};

{"button").on('click', function(){
    if (hasHtmlTags($('#xss-code').val())) {
        alert("Prevention from XSS")
}

else {
    $('#attack').html($('#xss-code').val())
}
}
```

Filtering the input given textbox to prevent XSS Attack by filtering <> patterns.



Alert box shows prevention from unwanted javascript written in the text box to prevent XSS.