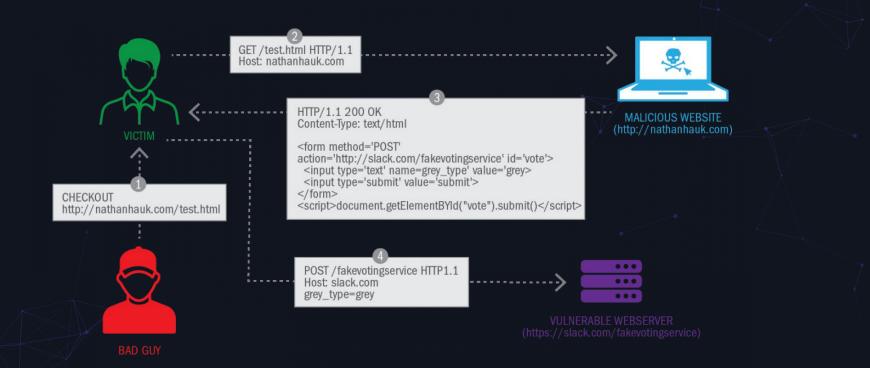


Cross-site request forgery (CSRF)

Cross-Site Request Forgery (CSRF) is an attack that forces an end user to execute unwanted actions on a web application in which they're currently authenticated. With a little help of social engineering, an attacker may trick the users of a web application into executing actions of the attacker's choosing. If the victim is a normal user, a successful CSRF attack can force the user to perform state changing requests like transferring funds, changing their email address, and so forth. If the victim is administrative account, CSRF can compromise the entire application.

Source: owasp.org







Don't mind the code, we will talk about sessions and authentication later.

Now go there: http://localhost:3000

You need to login to sign the petition.

Now go there: http://localhost:3001 and complete the form.

What happened?



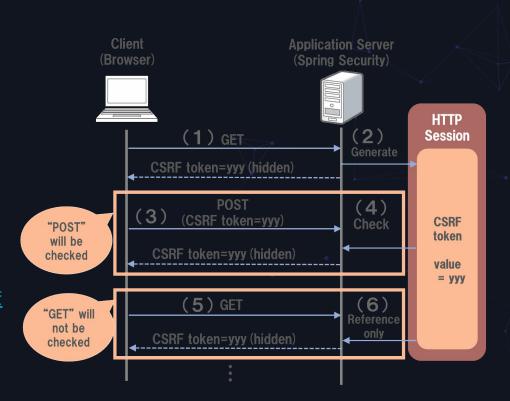
Ok, how could we fix that?



We will use token-based mitigation.
This defense is one of the most
popular and recommended methods to
mitigate CSRF.

There is a popular npm package for that:

https://www.npmjs.com/package/csurf





Practical work

Only modifying the server.js file, fix the security flaw.

You can install and use the following package to help you: https://www.npmjs.com/package/csurf

Particularly look at that part of the documentation:

https://www.npmjs.com/package/csurf#simple-express-example