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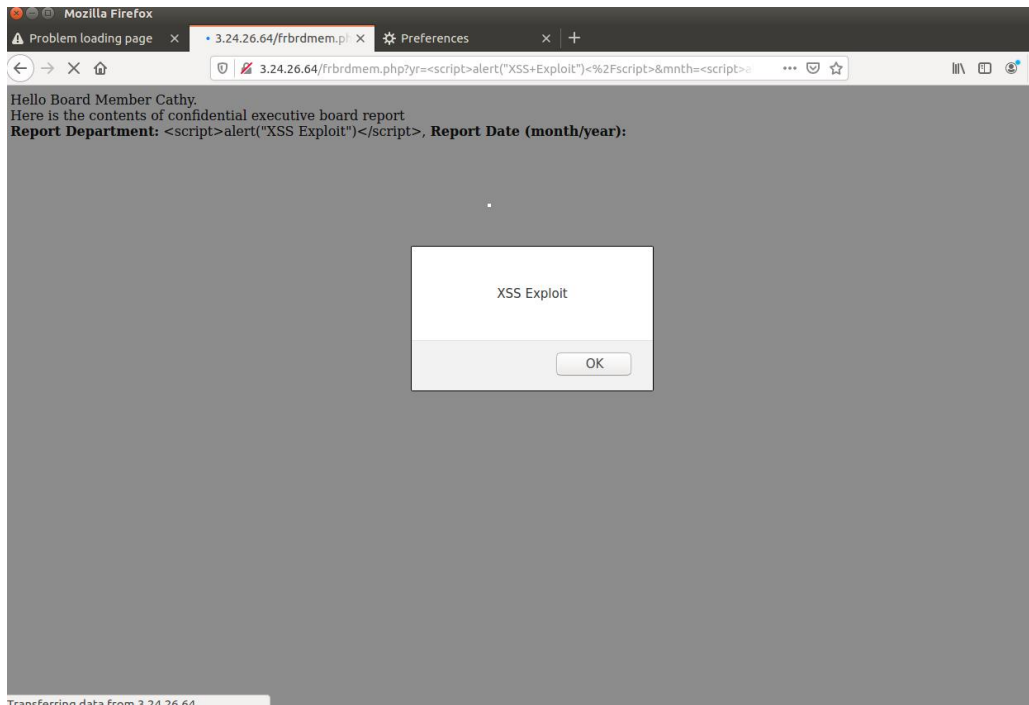
### **Task A.1**

There is no reflected XSS vulnerability exist in the home page. However, in the greeting page the attacker might inject his/her malicious script in the year, month, and department parameter.

### **Task A.2**

#### **TEST**

In the home page login there are total of three input which are Username, Password and location. When I embedded the script `<script>alert("XSS Exploit")</script>` inside Username and Password it shows **"Board member authentication rejected!"** so we can conclude that XSS vulnerabilities does not exist in the log in page. The reason the XSS vulnerability does not exist in Username and Password is because it checks for input validation. On the other hand, in the board member greeting page it accepts three input as well which are Year, Month and Department. When I embedded the script `<script>alert("XSS Exploit")</script>` the alert popped up like shown below in the image when the script is embedded inside the Month parameter but it does not have any effect on the other two parameters. Therefore, we can conclude that XSS vulnerabilities exist in the board member greeting page but only in the month parameter.



## TASK B.1

Yes, Alice could gain unauthorised access to Bob personal private data by using CSRF attack. The website has session management vulnerabilities which causes Alice to hijack the user's session and modified the tokens. That token is used to impersonate as user to the web application.

Firstly, I entered the member's name and member password for Alice on the log in page and the access was granted.

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## Web Secrets Society: Personal Member Documents

Hello member! Here, you can access your personal private information.

### Personal Private Information

Enter your member name and member password:

Member Name:

Member password:

Secondly, I changed the proxy to manual proxy in the setting preferences and run the command for burp suite in the terminal. Moreover, in the Doc ID parameter I entered 2 as the Doc ID and pressed view document.

## Hello, member Alice !

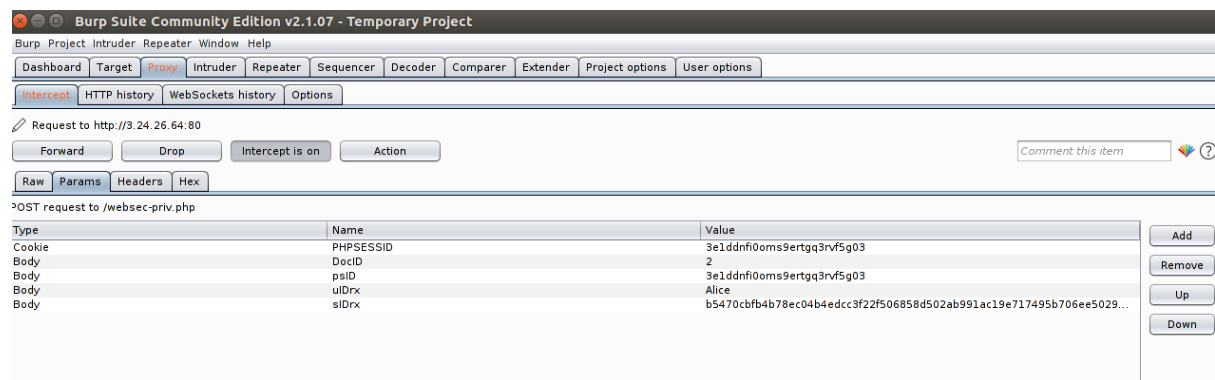
Please enter your private document ID number to view it:

Doc ID:

[View Document](#)

[Logout](#)

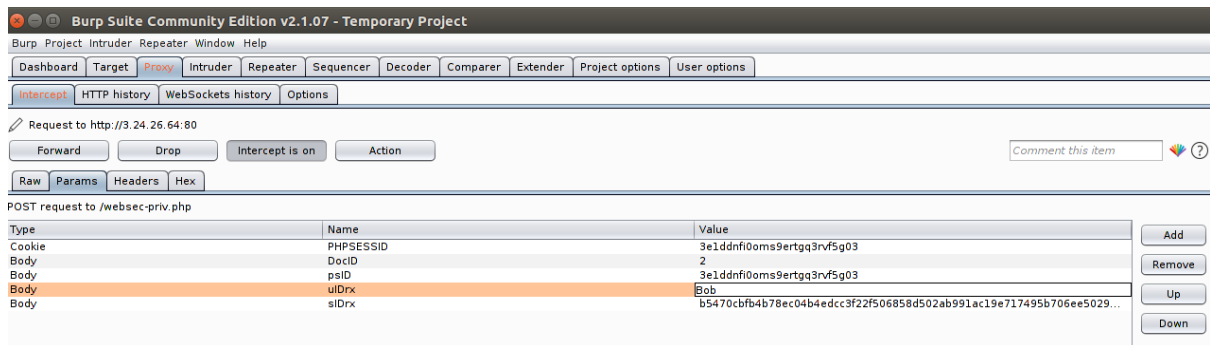
In burp suite application intercept was on and after pressing the view document button the following appears.



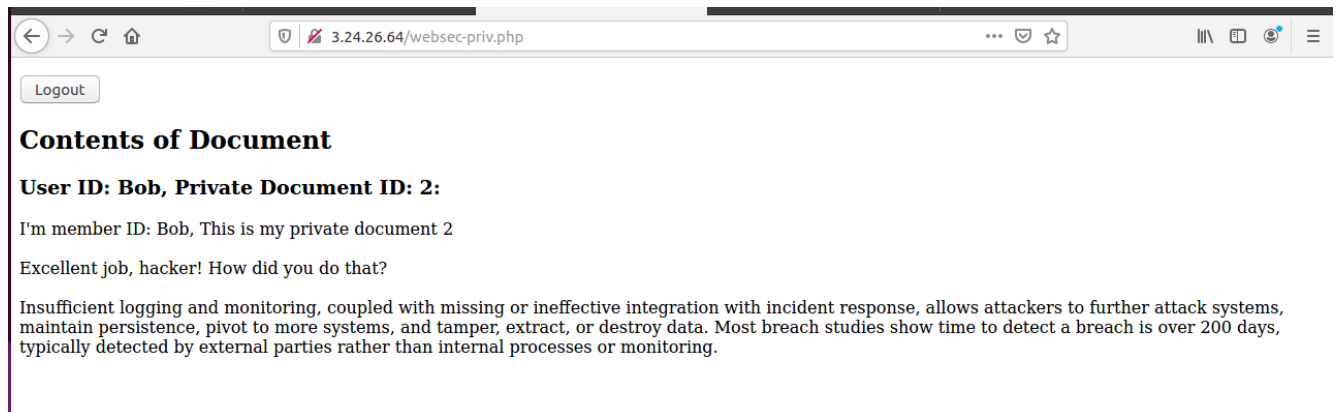
The screenshot shows the Burp Suite interface with the 'Intercept' tab selected. A request to http://3.24.26.64:80 is intercepted. The 'Intercept is on' button is active. The request details are shown in the 'Raw' tab, displaying a POST request to /websec-priv.php. The request body contains a cookie, DocID (2), psID, and user information (Alice).

Type	Name	Value
Cookie	PHPSESSID	3e1ddnfi0oms9ertgq3rvf5g03
Body	DocID	2
Body	psID	3e1ddnfi0oms9ertgq3rvf5g03
Body	ulDrx	Alice
Body	slDrx	b5470cbfb4b78ec04b4edcc3f22f506858d502ab991ac19e717495b706ee5029...

To gain unauthorised access as Bob I changed the name from Alice to Bob and pressed the forward button.



After pressing the forward button on the burp suite application, the following screen appears which shows that the Alice can gain unauthorised access to Bob private information.



I repeated the test with the Document ID 1 and the final result was the same.