The Issue

There was no way to check whether a request was being sent from the user clicking on a random link or if they were clicking a button on the armbook website. This allowed anyone to send links that were able to make requests on behalf of anyone clicking the link.

The Fix

I Implemented CSRF Token. CSRF tokens are randomly generated tokens which do nothing other than be able to tell whether a request was made from the same session that the user is in. This is done by requiring the random token be imputed as validation for any request that are needed to be secure.

How I Did It

1) Create CSRF token when the user correctly authenticates

2) Add CSRF token to add_friend and del_friend requests in home.php and search.php

Check CSRF token when add friend.php or del friend.php request is made

```
HW4 > Activity 2 > Step 2 > armbook_packaged > @ add_friend.php
 25
          $_SESSION['login']['born'] = time();
          if($_SESSION["token"] !== $_GET["token"]){
 27
               die("Invalid token");
 28
 29
 31
          // Get Profile data
          if($stmt = $mysqli->prepare("SELECT * from profiles where
 32
               if($stmt->bind_param("i", $_SESSION['user_id'])){
 33
                   if(!$stmt->execute()){
HW4 > Activity 2 > Step 2 > armbook_packaged > @ del_friend.php
           // Reset our counter
 24
           $_SESSION['login']['born'] = time();
 25
           if($_SESSION["token"] !== $_GET["token"]){
 27
 28
               die("Invalid token");
 29
           // Get Profile data
 31
           if($stmt = $mysqli->prepare("SELECT * from profiles whe
 32
               if($stmt->bind_param("i", $_SESSION['user_id'])){
 33
```

4) Profit B)