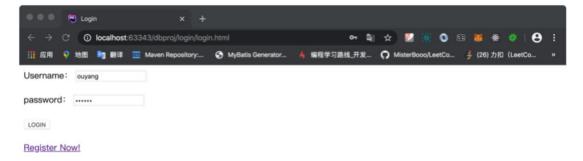
All .html and .php are in scripts floder.

 Login and create User (login.php, create\_user.php) login.php screenshot :



We can input the username and password to login in to the system. And if you do not have the account. You can "Register Now!" to create a new one.

In login.php I use

```
$stmt = $conn->prepare( query: "select * from user where username=? and password=?");
$stmt->bind_param( types: 'ss', &var1: $name, &..._: $password1);
$stmt->execute();
$result = $stmt->get_result();
if ($result->num_rows > 0)//判断密码与注册时密码是否一致
```

this way to SQL injection attacks:

By this way, I limit the degree of freedom of the query statement: the parameter is only the parameter, nobody can add a semicolon into a command. So I can defense the SQL injection attacks,

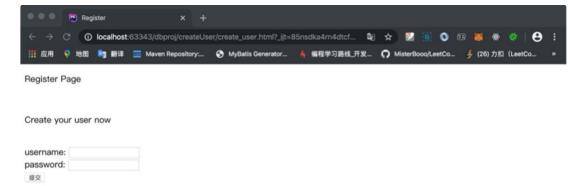
However, if I do in this way:

```
/* $str = "select * from user where username='$name' and password='$password1'";
$result = $conn->query($str);*/
```

if the attacker send this attack"; Drop table table\_name; "' password;

The SQL will just like "select \* from user where username= attack"; Drop table table\_name; "It will drop your table. This is unsafe.

create\_user.php:
 screenshot :



If I want to make sure every username is unique. I can do I by this way:

```
//username should be unique
$stmt = $conn->prepare( query: "select username from user where username = ?");
$stmt->bind_param( types: 's', &var1: $name);
$stmt->execute();
$result = $stmt->get_result();
```

Here, I also use the same way to defend the SQL injection. The principle is the same as above.

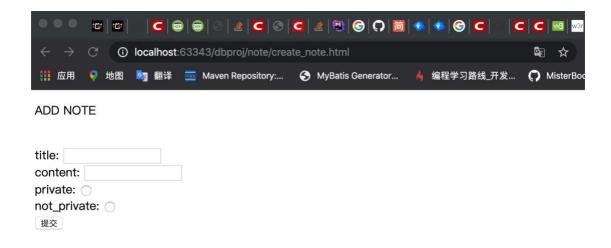
```
//username should be unique
$stmt = $conn->prepare( query: "select username from user where username = ?");
$stmt->bind_param( types: 's', &var1: $name);
$stmt->execute();
$result = $stmt->get_result();
```

However, if I do the register SQL by this way, I will not able to defend the SQL injection:

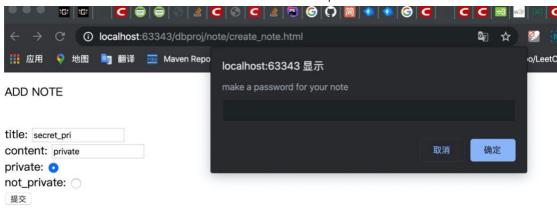
```
$sql="insert into user (username,password) VALUES ('$name','$password')";
if ($conn->query($sql) === TRUE) {
    //echo "New record created successfully";
    echo"<script type="."\""."text/javascript"."\"".">"."window.location="."\""."reg
} else {
    echo "Error: " . $sql . "<br>}
```

If I want to make sure there is no SQL injection. I can do this by the way as above. So, as fellow I will not talk about the SQL injection.

2. Notes creation (create\_note.php)



Here I can create a new note. And if I want to make it private. I can do like this



So, I can add a password to encrypt this content. After I make a note. I will go back to main.php.

By the way, I use the password for note is blank or not to make sure the is private not or not.

By this way I make sure the title and content is not blank.

Here, I can make sure you can only see your note.

The username, I use session like this:

```
session_start(); //开启session

$username_this = $_SESSION['username'];

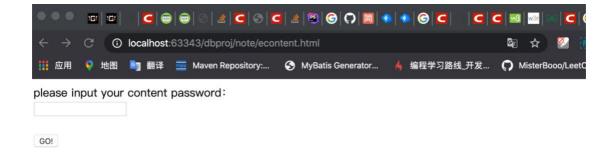
$title_id = $_GET['id'];
```

Here, I use AES\_ENCRYPT('\$content','\$note\_pass') to encrypt the content.

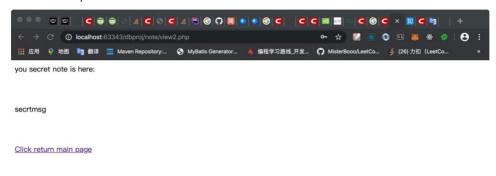
## 3. View note(view.php)

After I click the title in main.php. I can view the note:

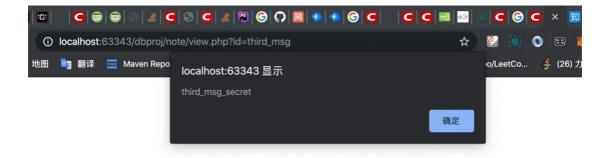
If the note is encrypted, I need a password for the content(the password is not login password). Like this:



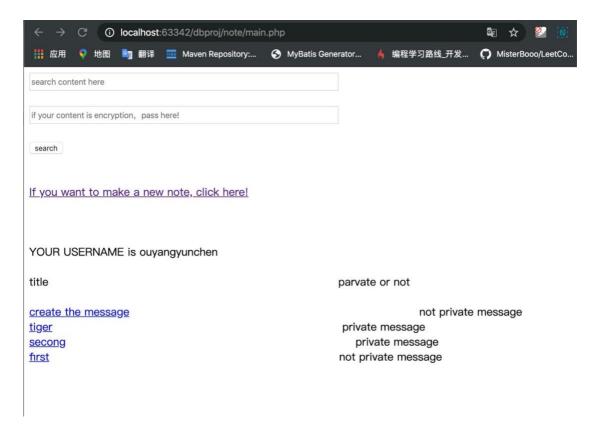
After enter password. I can see the result. Like this



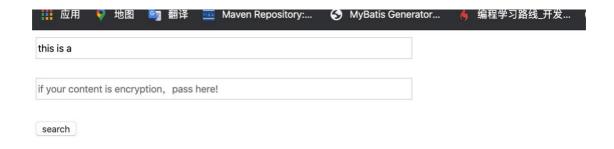
If the note is not encryption, just click, I can see the result:



4. Notes browsing and searching (main.php)



On the top, I can search. Just like, if I want to search the content like "this is a message". This message is not private. You do not have to input all message. Just like "this is a"will work.



If you want to make a new note, click here!

## YOUR USERNAME is ouyangyunchen

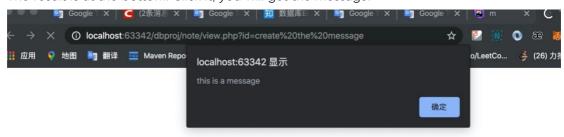
title parvate or not

create the message not private r

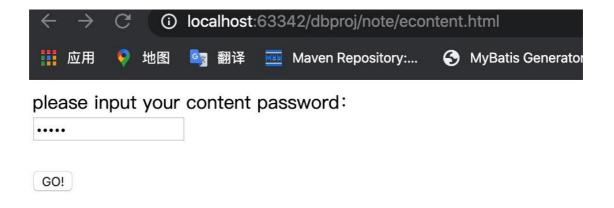
tiger private message
secong private message
first not private message

search result:
<a href="mailto:create-the-message">create-the-message</a>

The result is at the bottom. Click it, you will get the message:



If it is a private message. You need enter a password for the content:



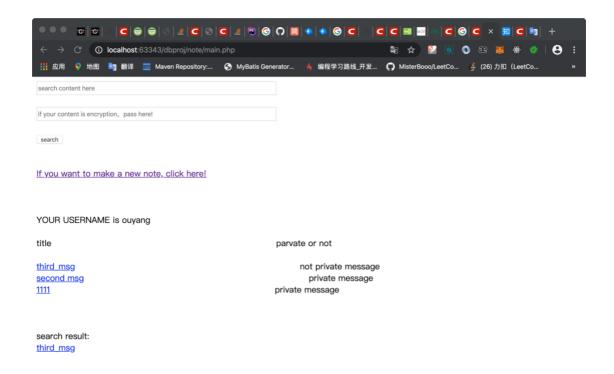
You can see the result by the password:



you secret note is here:

tiger and pig

Click return main page



And I also can go to create a new note by click the link.

## Database:

```
Create syntax:

CREATE TABLE 'note' (
    'note_ID' int(10) NOT NULL DEFAULT'',
    'username' varchar(10) NOT NULL DEFAULT'',
    'title' varchar(300) CHARACTER SET Utf8 COLLATE utf8_general_ci NOT NULL DEFAULT'',
    'content' varbinary(400) NOT NULL DEFAULT'',
    'private_note' int(2) NOT NULL,
    'create_time' datetime DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY ('note_ID')
) ENGINE=InnoDB AUTO_INCREMENT=28 DEFAULT CHARSET=utf8;
```



```
CREATE TABLE `user` (
  `id` int(10) NOT NULL AUTO_INCREMENT,
  `username` varchar(30) DEFAULT NULL,
  `password` varchar(40) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=27 DEFAULT CHARSET=utf8;
```

