Assessor checklists

HP2T 48— Web Development: Dynamically Generated

Outcomes 3	
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Class	20SD1
SCN Number	227006951
Assessment ou	atcome 3
Authenticated	by Assessor

Task 2 — Implement a dynamic data driven website

Using the completed website specification, you are required to develop a dynamic data driven web application using an appropriate server side language and database.

Learner checklist

The completed website must show evidence of all of the following:

	Completed
Implementation of a database with multiple tables.	
Connection to a data source.	
Development of the structure and content of a dynamic data driven website.	
Development of web applications.	
Database interrogation.	
Implementation of security features.	
Passing and obtaining data from forms.	
Passing and obtaining data via the URL.	
Implementation of SQL queries.	

Implementation of session management.



Beihang University (BUAA) Own Work Declaration

Candidate's name	Zhao Shirui	Class	20SD1
SCN Number	227006951	Group	

I declare that all submitted work will be my own.

I understand that any false claim for my work will be penalised in accordance with University regulations and relevant SQA requirements.

Signature of candidate: Zhao Shirui

Date (M/D/Y): 11/30/2022

Content

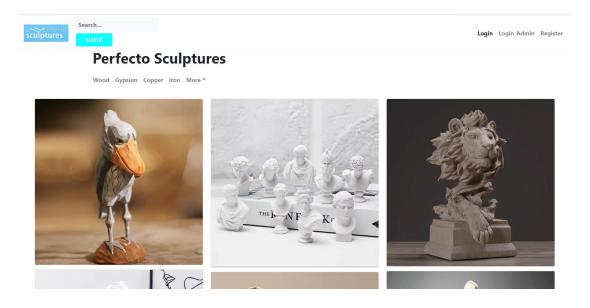
1. Connection to a data source

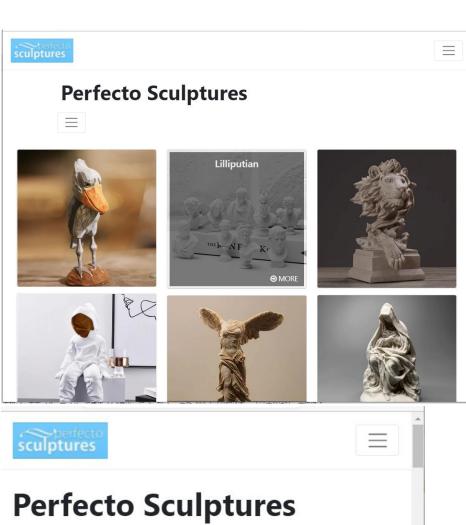
- 2. Development of the structure and content of a dynamic data driven website.
- 2.1 Dynamic structure to obtain data.

2.2 Static page output data.

The product information in the database is output circularly using php language.

2.3 Interface details.





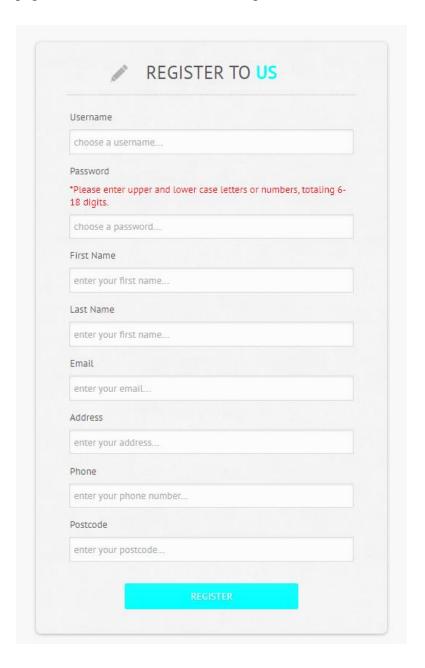




3. Development of web applications.

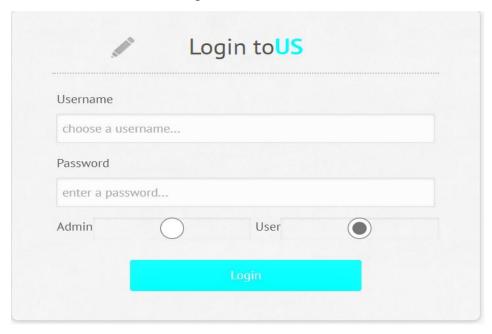
3.1 Register page.

The user fills in the information on the page and transfers it to the data processing page. If the information meets the requirements, it can be inserted into the database.



3.2 Login page.

After selecting the correct role, the user can log in to view the detailed page by filling in the correct user name and password.



```
$result=my_error($sql_user);
$user=mysqli_fetch_assoc($result);
if($user&&$role=='user')
{
    header('Refresh:3;url=Home.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successful!';
}
else if($user&&$role=='admin')
{
    header('Refresh:3;url=Delete.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successful!';
}
else{
    header('Refresh:3;url=Login.php');
    echo 'The Username or password is incorrect';
}
```

3.3 Add commodity interface.

```
k?php
    header('Content-type:text/html;charset=utf-8');
    include_once'Connect.php';

$P_Img=isset($_POST['image'])?$_POST['image']:'';

$PNumber=isset($_POST['Pnumber'])?$_POST['Pnumber']:'';

$PName=isset($_POST['Pnumber'])?$_POST['Pnumber']:'';

$Description=isset($_POST['description'])?$_POST['description']:'';

$Category=isset($_POST['description'])?$_POST['category']:'';

$Price=isset($_POST['price'])?$_POST['price']:'';

$Height=isset($_POST['height'])?$_POST['price']:'';

$Quantity=isset($_POST['quantity'])?$_POST['quantity']:'';

$file=$_FILES['image'];

$name=isset($file['name'])?$file['name']:'';

$type=isset($file['type'])?$file['type']:'';

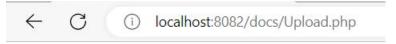
$error=isset($file['error'])?$file['error']:'';

$size=isset($file['size'])?$file['size']:'';

$s=(explode('/',$file['type']));
```

Detailed interface display.





Add successful!

The database contains the data of p0016.

p0015	Gloomy Bear	Modern sculpture	plastic	299.99	150	10	s15.jpg	image/jpeg	/img/s15.jpg	0	115221
P0016	hei	12313	4213	123	123	123	里白.png	image/png	/img/里白	0	22991

The display page already contains this image, and you can delete this product.



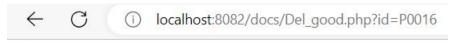
3.4 Delete goods Interface

After the administrator clicks Delete Commodity, the system will delete this record from the database.

```
header('Content-type:text/html;charset=utf-8');
  include_once'Connect.php';
$good=$_GET['id'];
$sql_delete="delete from production where Pno='$good'";

$result=my_error($sql_delete);
if($result)
{
  header('Refresh:3;url=Delete.php');
  echo'Delete successful!';
}
else{
  header('Refresh:3;url=Delete.php');
  echo'Fail to Delete!';
}
```

After the administrator logs in, he/she can delete the goods.



Delete successful!

The database no longer contains the data of p0016.

p001	4 Silence	Gypsum sculpture	Gypsum	99.99	50	20	s14.jpg	image/jpeg	/img/s14.jpg	0	274353
p001	Gloomy Bear	Modern sculpture	plastic	299.99 NULL	150 NULL	10 HULL	s15.jpg	image/jpeg	/img/s15.jpg	NULL	115221

3.5 Update goods Interface

Click Update to enter the data interface, where the administrator can update the commodity data.

```
<?php
header('Content-type:text/html;charset=utf-8');
include_once('Connect.php');

$PNumber=isset($_POST['id'])?$_POST['id']:'';

$PName=isset($_POST['name'])?$_POST['name']:'';

$Poscription=isset($_POST['description'])?$_POST['description']:'';

$Category=isset($_POST['description'])?$_POST['otegory']:'';

$Price=isset($_POST['price'])?(double)$_POST['price']:'';

$Height=isset($_POST['height'])?intval($_POST['height']):'';

$Quantity=isset($_POST['quantity'])?floatval($_POST['quantity']):'';

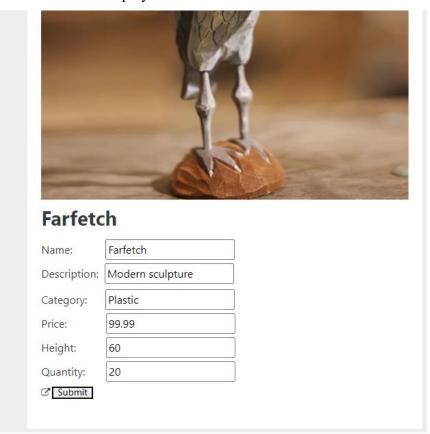
if(empty($PName)||empty($Description)||empty($Category)||empty($Price)|
|empty($Height)||empty($Quantity))

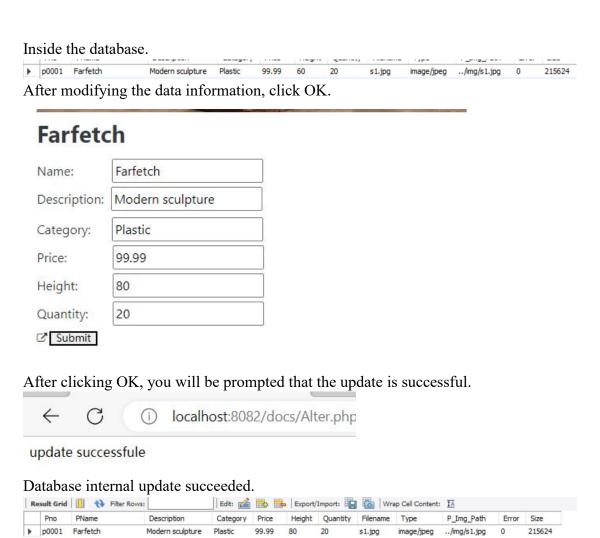
{
    header('Refresh:3;url=Alter1.php');
    exit ('The data is incorrect. Please fill in the data completely.');
}
else

{
    $sql_update="update production set PName', Description='$Description',
    Category='$Category', Price=$Price, Height=$Height, Quantity=$Quantity where Pno='$PNumber'";
    my_error($sql_update);
    header('Refresh: 3; url=Alter1.php');
    echo 'update successfule';
}

}>
```

Detail interface display





4. Implementation of security features.

4.1 Md5 encryption

Users will perform md5 encryption on their passwords during data login and registration. Prevent people other than users from directly accessing the password.

```
header('Content-type:text/html;charset=utf-8');
include'Connect.php';
$username=isset($_POST['username'])?$_POST['username']:'';
$password=md5(isset($_POST['password'])?$_POST['password']:'');
$firstname=isset($_POST['firstname'])?$_POST['firstname']:'';
$lastname=isset($_POST['lastname'])?$_POST['lastname']:'';
$email=isset($_POST['email'])?$_POST['email']:'';
$address=isset($_POST['address'])?$_POST['address']:'';
$phone=isset($_POST['phone'])?$_POST['phone']:'';
$postcode=isset($_POST['postcode'])?$_POST['postcode']:'';
```

```
$username=isset($_POST['username'])?$_POST['username']:'';
$password=md5(isset($_POST['password'])?$_POST['password']:'');
$role=isset($_POST['role'])?$_POST['role']:'';
```

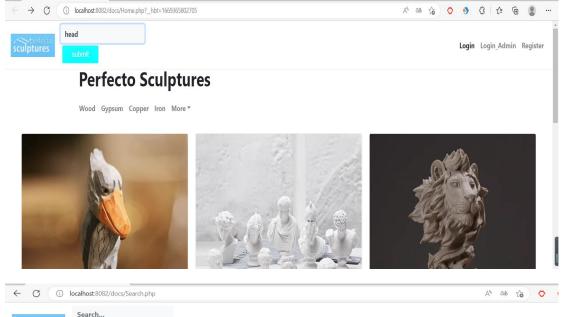
4.2 For user information, use the post method.

Using post method has some privacy.

5. Passing and obtaining data from forms.

5.1 Use the post method to pass the goods to be searched to the dynamic interface.

```
<pre
```

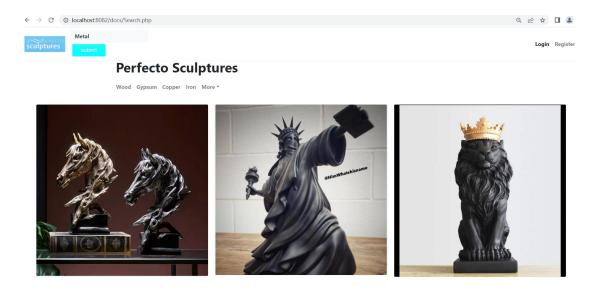


Perfecto Sculptures

Wood Gypsum Copper Iron More ▼







6. Passing and obtaining data via the URL.

\$res=my_error(\$sql);

include'post.html';

\$production=mysqli_fetch_assoc(\$res);

6.1 Pass the product number through the url, so that the user can see the product detail page.

```
<
```



localhost:8082/docs/Display.php?id=p0001

Search...



Farfetch'd

- Description: Modern sculptureCategory: plasticPrice: 99.99
- Height: 50
- Quantity: 20

☑ Purchase it!

7. Implementation of SQL queries.

7.1 Production display page

On the product display page, users can find the basic information of the product through the product number.

```
    header('Content-type:text/html;charset=utf-8');
    include'Connect.php';
    $id=isset($_GET['id'])?$_GET['id']:"";
    $sql="select * from production where Pno='$id'";
    $res=my_error($sql);
    $production=mysqli_fetch_assoc($res);
    include'post.html';
    ?>
}
```



Farfetch'd

- Description: Modern sculpture
- Category: plastic
- Price: 99.99
- Height: 50
- Quantity: 20

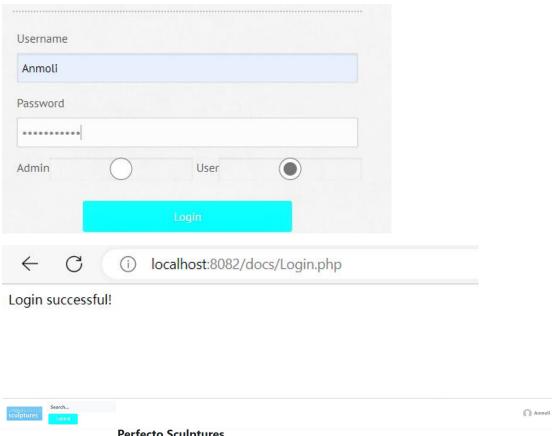
☑ Purchase it!

7.2 login interface

After entering the correct username and password, users can view the details of the product.

```
$result=my_error($sql_user);
$user=mysqli_fetch_assoc($result);
if($user&&$role=='user')
{
    header('Refresh:3;url=Home.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successfull';
}
else if($user&&$role=='admin')
{
    header('Refresh:3;url=Delete.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successfull';
}
else{
    header('Refresh:3;url=Login.php');
    echo 'The Username or password is incorrect';
}
```

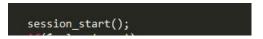
7.2.1 Detailed interface display.



Perfecto Sculptures

8. Implementation of session management.

On the login dynamic page, open the session.



Record the user name of the login.

```
if($user&&$role=='user')
{
    header('Refresh:3;url=Home.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successful!';
}
else if($user&&$role=='admin')
{
    header('Refresh:3;url=Delete.php');
    $_SESSION['username']="$username";
    $_SESSION['role']="$role";
    echo'Login successful!';
}
```

After logging in, the user name will be displayed in the upper right corner of the website. If an administrator logs in, the admin can also check whether to add or delete goods.

Detailed interface display.

admin123			
Password			

Admin	•	User	
		Login	

Login successful!

