Lecture 27

CONNECTIONS: A Web Application

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Summary of the previous lecture

- **Deleting records in MySQL using PHP**

- **Updating records in MySQL using PHP**

Outline

- **User registration (already discussed)**

- **User login (already discussed)**

- **Send Message**

- **Inbox**

- **Out Box**

- **Sign-Out**

1. User registration

- **User registration form:**
  - **Home page**

- **Action page:**
  - **Retrieve user's input**
  - **Validate input**
  - **Connection with DB**
  - **Insert record into users table**

2. User login

- **User login form:**
  - **Home page**

- **Action page:**
  - **Retrieve user's input**
  - **Connection with DB**
  - **Select record from users table where user email and password are same as user's input**
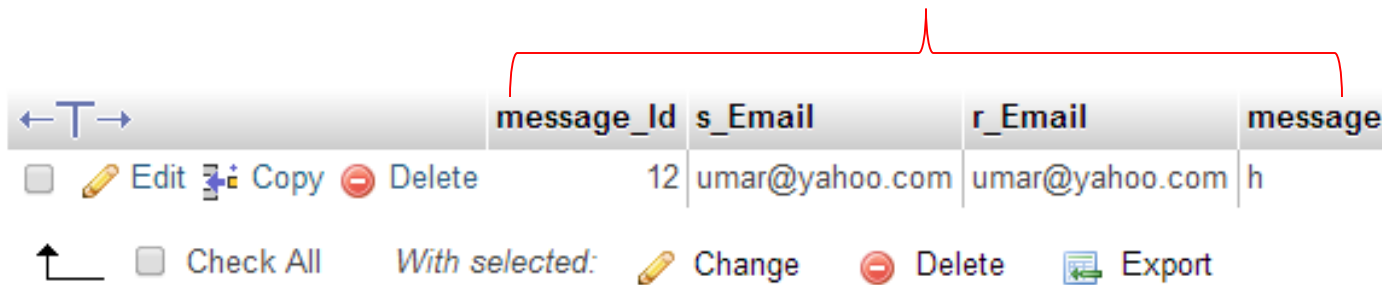
2. User login...

- **If one row is selected then:**
  - **Session variables are registered**
    - **$_SESSION['name'];**
    - **$_SESSION['email'];**
    - **$_SESSION['password'];**
  - **Redirect to user's page**
- **Redirect to index page with error message**

3. Send message

- **Create a table in connections database as:**
  - **Table Name: messages**
  - **No. of fields: 4**
    - **message_Id int   5**
    - **s_Email   varchar   50**
    - **r_Email   varchar   50**
    - **message varchar   500**

3. Send message…

Table fields

3. Send message…

- **Form to send message:**
  - **Receiver email: data-list of users**
  - **Message: text-area**
  - **Submit button**
- **Action page:**
  - **Retrieve receiver email and message from post array**
  - **Retrieve sender email from $_SEESION['email']**
  - **Insert data into messages table**

3. Send message…

```php
1  <?php
2  session_start();
3  include('connection.php');
4  ?>
5  <html>
6  <head>
7  <title> SEND MESSAGE</title>
8  <link href="style.css" rel="stylesheet"
9  type="text/css">
10 </head>
11 <body>
```

Session starts

DB connection

HTML page starts

3. Send message…

```
12  <div id="container">
13  <div id="header">
14  <div id="logo"><img src="images/logo.jpg"
15  height="116" width="170"></div>
16  </div>
17  <div id="center-content">
18  <div class="action">
19  <div><a href="send.php">Send Message</a></div>
20  <div><a href="inbox.php">InBox</a></div>
21  <div><a href="outbox.php">OutBox</a></div>
22  <div><a href="signout.php">SignOut</a></div>
23  </div>
```

header

links

3. Send message…

Form starts

```
24  <div class="form-container">
25  <div class="form-heading">Send Message </div>
26  <form method="post" action="message.php">
27  <div class="form-row">
28  <?php
29  error_reporting(0);
30  echo $_GET['msgsend'];
31  ?>
32  </div>
```

First row shows the message from action page

3. Send message…

```
33  <div class="form-row">
34  <label>Receiver Email</label>
35  <input type="text" name="remail" list="emails">
36  <datalist id="emails">
37  <?php
38  $sql="select * from users";
39  $result= mysql_query($sql);
40  while($rows = mysql_fetch_array($result))
41  {
42  ?>
43  <option value="<?php echo $rows[2]; ?>"> <?php
    echo $rows[1]; ?> </option>
44  <?php } ?>
45  </datalist>
```

Input field

List attribute

Datalist starts

Selects users

Loop starts

Sets options

Loop ends

Datalist ends

3. Send message…

```
46  </div>
47  <div class="form-row-big">
48  <label>Your Message</label>
49  <textarea name="message" rows="5" cols="28">
50  </textarea>
51  </div>
52  <div class="form-row">
53  <label></label>
54  <input class="sub" type="submit" value="Send
    Message">
55  </form>
56  </div>
57  </div>
58  <div class="space"> </div>
```
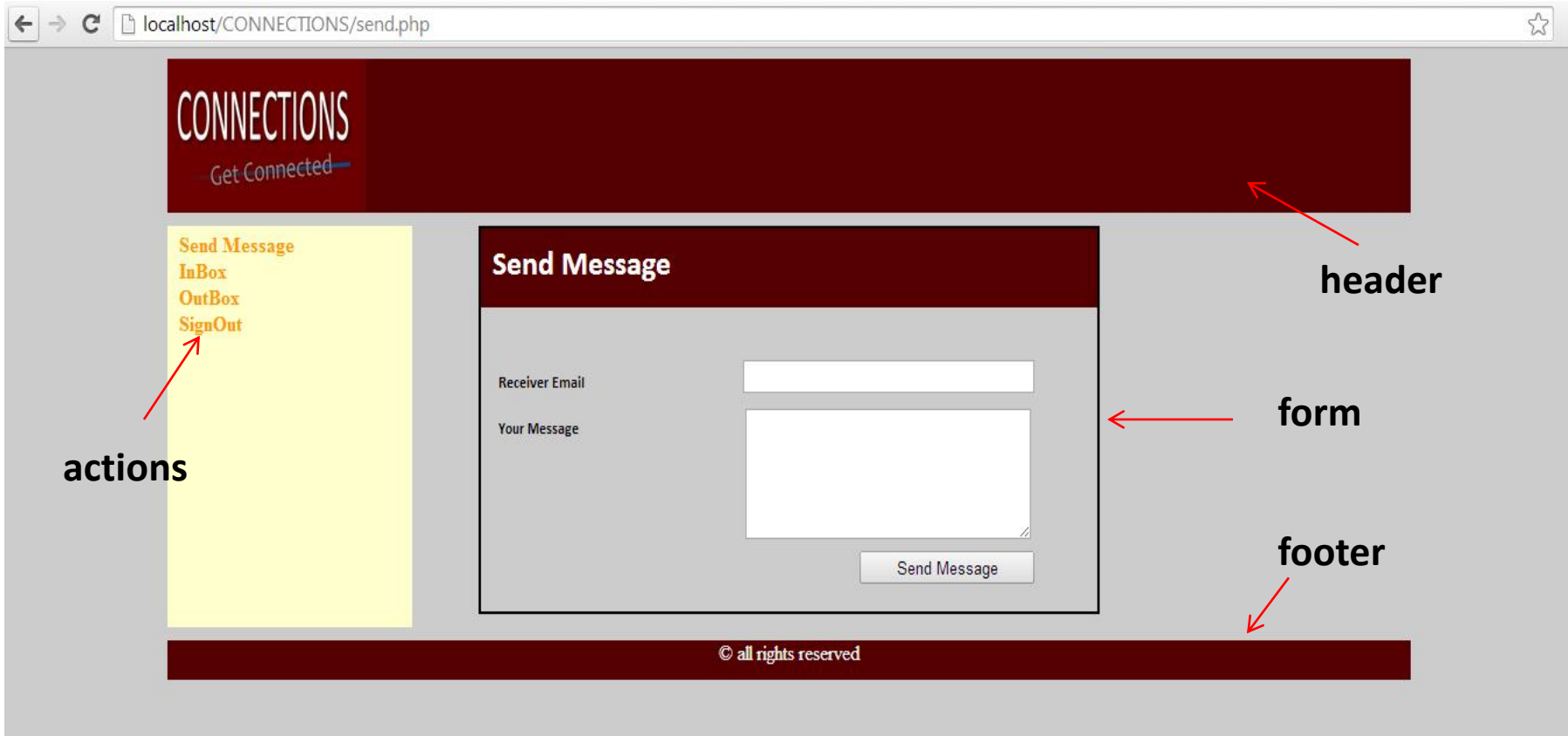
Textarea for message

Submit button

Form ends

3. Send message…

```
59  <div id="footer">&copy; all rights reserved
60  </div>
61  </div>
62  </body>
63  </html>
```

Footer div

3. Send message…

3. Send message…

```php
1  <?php
2  session_start();
3  $s_Email    =    $_SESSION['email'];
4  $r_Email    =    $_POST['remail'];
5  $message    =    $_POST['message'];
6  include('connection.php');
7  $sql = "INSERT INTO `connections`.`messages` (
8  `s_Email` ,`r_Email` ,`message`
9  )
10 VALUES ('$s_Email', '$r_Email', '$message')";
11 mysql_query($sql);
12 header("location:send.php?msgsend=Message is sent
   successfully");
13 ?>
```

Session starts

Sender's email from session

User's input

DB Connection

Insertion Instruction

Query executed

redirection

4. Inbox page

- **Session** starts

- **DB** connection

- **Retrieve receiver id from session**

- **Select messages against user's id**

- **Display structure**

- **Display all messages**

4. Inbox page

```php
1  <?php
2  session_start();
3  include('connection.php');
4  ?>
5  <html>
6  <head>
7  <title> User's Inbox!</title>
8  <link href="style.css" rel="stylesheet"
9  type="text/css">
10 </head>
```

Session starts

DB connection

CSS is included

4. Inbox page…

```
11  <body>
12  <div id="container">
13  <div id="header">
14  <div id="logo"><img src="images/logo.jpg"
15  height="116" width="170"></div>
16  </div>
17  <div id="center-content">
18  <div class="action">
19  <div><a href="send.php">Send Message</a></div>
20  <div><a href="inbox.php">InBox</a></div>
21  <div><a href="outbox.php">OutBox</a></div>
22  <div><a href="send.php">SignOut</a></div>
23  </div>
```

Header and logo

Action box

4. Inbox page…

```php
24  <?php
25  $id=$_SESSION['email'];
26  $sql = "select * from messages
27          where r_Email='$id'";
28  $result = mysql_query($sql);
29  while($rows=mysql_fetch_array($result))
30  {
31  $s="select * from users
32  where user_Email = '$rows[1]'";
33  $res=mysql_query($s);
34  $row=mysql_fetch_array($res);
35  ?>
```

User's id

Messages received by user

Instruction executed

Message is fetched

Sender's information

4. Inbox page…

```
36  <div class="space"> </div>
37  <div class="message">
38  <div class="imgage"><img src="<?php echo $row[4];
    ?>" height="120" width="100"></div>
39  <div class="messagetext"> Send by: <?php echo
    $rows[1]; ?></div>
40  <div class="messagetext">Message: <?php echo $rows
    [3]; ?></div>
41  </div>
42  <?php } ?>
43  <div id="footer">&copy; all rights reserved
44  </div>
45  </div>
46  </body>
47  </html>
```

Sender's picture

Sender's email

message

Loop ends

Footer

4. Inbox page...

localhost/CONNECTIONS/inbox.php

CONNECTIONS
Get Connected

Send Message
InBox
OutBox
SignOut

Send by: umar@yahoo.com
Message: h

message

Sender pic

Send by: hassan@yahoo.com
Message: Hello dear

5. Outbox page

- **Session starts**

- **DB connection**

- **Retrieve receiver id from session**

- **Select messages sent against user's id**

- **Display structure**

- **Display all messages**

5. Outbox page…

```php
24  <?php
25  $id=$_SESSION['email'];
26  $sql = "select * from messages
27          where s_Email='$id'";

28  $result = mysql_query($sql);
29  while($rows=mysql_fetch_array($result))
30  {
31  $s="select * from users
32  where user_Email = '$rows[2]'";
33  $res=mysql_query($s);
34  $row=mysql_fetch_array($res);
35
36  ?>
```

Messages sent by the user

Messages are fetched

Receiver's info

5. Outbox page…

```
37 <div class="space"> </div>
38 <div class="message">
39 <div class="imgage"><img src="<?php echo $row[4];
   ?>" height="120" width="100"></div>
40 <div class="messagetext"> Sent to:<?php echo $rows
   [2]; ?></div>
41 <div class="messagetext"> Message:<?php echo $rows
   [3]; ?></div>
42 </div>
43 <?php } ?>
```

Messages are displayed

5. Outbox page…

6. Sign-Out

- **Starts session**

- **Destroy session**

- **Redirect**

6. Sign-Out…

```php
1  <?php
2  session_start();
3  session_destroy();
4  header('location:index.php');
5  ?>
```

Session starts

Session destroys

redirection

Summary

- **User registration (already discussed)**

- **User login (already discussed)**

- **Send Message**

- **Inbox**

- **Out Box**

- **Sign-Out**

References

- **Chapter 30,** "Beginning PHP and MySQL" by W. Jason Gilmore, Apress publisher, 4th edition; 2010, ISBN-13 (electronic): 978-1-4302-3115-8.