

Lecture 27

CONNECTIONS: A Web Application

Mr. Mubashir Ali

Lecturer (Dept. of Computer Science)

dr.mubashirali1@gmail.com

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...

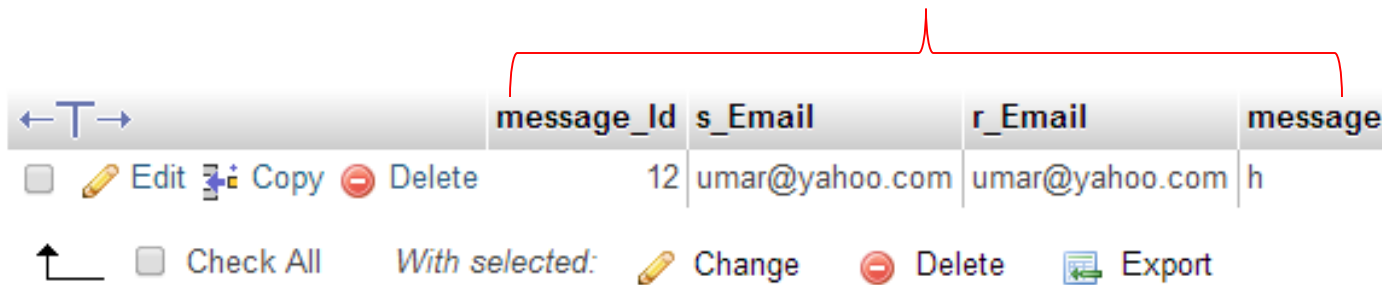
- **If one row is selected then:**
 - **Session variables are registered**
 - `$_SESSION['name'];`
 - `$_SESSION['email'];`
 - `$_SESSION['password'];`
 - **Redirect to user's page**
- **Redirect to index page with error message**

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



A screenshot of a table interface. The table has four columns: message_Id, s_Email, r_Email, and message. The first row contains the values 12, umar@yahoo.com, umar@yahoo.com, and h. Above the table, a red bracket highlights the columns message_Id, s_Email, r_Email, and message. Below the table, there are several action buttons: a checkbox, an 'Edit' button with a pencil icon, a 'Copy' button with a document icon, a 'Delete' button with a minus sign icon, an '↑' button, a 'Check All' button with a checkbox, a 'With selected:' label, a 'Change' button with a pencil icon, a 'Delete' button with a minus sign icon, and an 'Export' button with a document icon.

| | message_Id | s_Email | r_Email | message |
|---|------------|----------------|----------------|---------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 12 | umar@yahoo.com | umar@yahoo.com | h |

↑ Check All With selected: Change Delete Export

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 `$_SESSION['email']`
 - **Insert** data into messages table

3. Send message...

```
1 <?php
2 session_start();
3 include('connection.php');
4 ?>
```

Session starts

DB connection

```
5 <html>
6 <head>
7 <title> SEND MESSAGE</title>
8 <link href="style.css" rel="stylesheet"
9 type="text/css">
10 </head>
11 <body>
```

HTML page starts

3. Send message...

```
12 <div id="container">
13 <div id="header">
14 <div id="logo"></div>
16 </div>
```

header

```
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>
```

links

3. Send message...

```
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>
```

Form starts

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="remai" 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
44 echo $rows[1]; ?> </option>
45 <?php } ?>
46 </datalist>
```

Input field (points to line 35)

List attribute (points to line 35)

Datalist starts (points to line 36)

Selects users (points to lines 38-39)

Loop starts (points to line 40)

Sets options (points to line 43)

Loop ends (points to line 44)

Datalist ends (points to line 45)

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

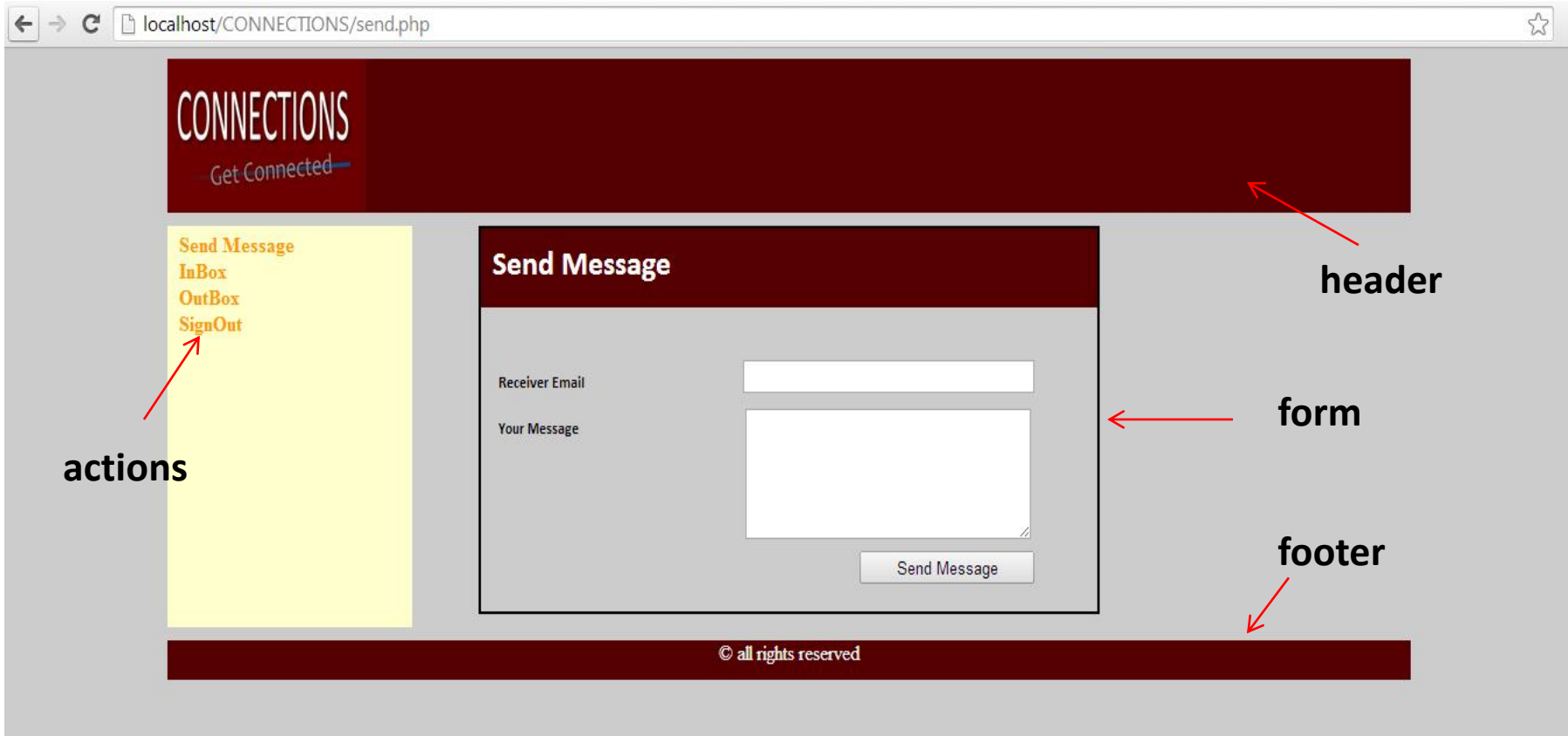
3. Send message...

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



Footer div

3. Send message...



3. Send message...

```
1 <?php
2 session_start();
3 $s_Email = $_SESSION['email'];
4 $r_Email = $_POST['reemail'];
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
13 successfully");
14 ?>
```

Session starts (points to line 2)

Sender's email from session (points to line 3)

User's input (bracketed lines 4 and 5)

DB Connection (points to line 6)

Insertion Instruction (bracketed lines 7-9)

Query executed (points to line 11)

redirection (points to line 12)

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

```
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"></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...

```
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"></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

Loop ends

message


Footer


4. Inbox page...

localhost/CONNECTIONS/inbox.php

CONNECTIONS
Get Connected

Send Message
InBox
OutBox
SignOut

 Send by: umar@yahoo.com
Message: h ← message

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

© all rights reserved

The image shows a web browser window displaying an inbox page. The browser's address bar shows 'localhost/CONNECTIONS/inbox.php'. The page has a dark red header with the text 'CONNECTIONS' and 'Get Connected'. On the left, there is a yellow sidebar with links: 'Send Message', 'InBox', 'OutBox', and 'SignOut'. The main content area displays two messages. The first message is from 'umar@yahoo.com' with the subject 'message' and a small profile picture of a child. A red arrow points from the text 'message' to the subject line, and another red arrow points from the text 'Sender pic' to the profile picture. The second message is from 'hassan@yahoo.com' with the subject 'Hello dear' and a small profile picture of a child. At the bottom of the page, there is a dark red footer with the text '© all rights reserved'.

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...

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

localhost/CONNECTIONS/outbox.php

CONNECTIONS
Get Connected

[Send Message](#)
[InBox](#)
[OutBox](#)
[SignOut](#)

 Sent to:umar@yahoo.com
Message:h

 Sent to:hassan@yahoo.com
Message>Hello

© all rights reserved

6. Sign-Out

- **Starts session**
- **Destroy session**
- **Redirect**

6. Sign-Out...

```
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.