Electronic Medical Record Keeping System Source Code

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MyHealth® System

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Source Code

Accountant.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

<h1>Accountants</h1>

The MyHealth System recognizes an organization's need for proper billing and payment processing. Accountants primary goals include running billing reports, processing payments, and verifying account balances. After authentication, accountant users will see the options to do Billing Reports, Process Payments, and Verify Account Balance.

Billing Reports

Process Payments

Verify Account Balance

```php
<?php


include("body_end.php");

include("footer.php");

?>
```

Auditor.php

```php
<?php

include("includes.php");

include("header.php");

include("body_start.php");

?>
```

<h1>Auditors</h1>

Auditors access the organization's billing records and expenses to see current and recent activity. They are allowed to look but not modify any existing transactions or payments that does not compromise patient confidentiality. Auditors also verify the pharmacological stock matches purchase and prescription records. After authentication, the auditing user will see options to do a Billing Audit or a Pharmacy Audit.

Billing Audit

Pharmacy Audit

```php
<?php

include("body_end.php");

include("footer.php");

?>
```

Authenticate.php

```php
<?php
$trigger = "true";

include("includes.php");

define('SALT_LENGTH', 9);
```

```php
function generateHash($plainText, $salt = null)
{
    if ($salt === null)
    {
        $salt = substr(md5(uniqid(rand(), true)), 0, SALT_LENGTH);
    }
    else
    {
        $salt = substr($salt, 0, SALT_LENGTH);
    }

    return $salt . sha1($salt . $plainText);
}


$username = md5($_POST['username']);

$password = $_POST['password'];

$_SESSION['username'] = $_POST['username'];


if ($_SESSION['username'] == null || $_SESSION['username'] == "")
{
    $_SESSION['loginerror']="Enter a username.";
    $_SESSION['login']="false";
    SESSION_write_close();
    header("Location: index.php");
    exit();
}


$sql = "select uid, password from users where username = '$username';";
```

```php
$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

if (mysql_num_rows($result) > 0)
{

  $row = mysql_fetch_row($result);

  $salt = substr($row[1],0,SALT_LENGTH);
  $userpass = substr($row[1],SALT_LENGTH);

  if ($row[1] == generateHash($password,$salt))
  {
    $_SESSION['uid'] = $row[0];
    $_SESSION['login']="true";
    SESSION_write_close();
    header("Location: index.php");
    exit();
  }
  else
  {
    $_SESSION['loginerror']="Incorrect password.";
    $_SESSION['login']="false";
    SESSION_write_close();
    header("Location: index.php");
    exit();
  }
}
else
```

```php
{

    $_SESSION['loginerror']="Incorrect username.";

    $_SESSION['login']="false";

    SESSION_write_close();

    header("Location: index.php");

    exit();

}


?>
```

Billingaudit.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

<h1>Billing Audits</h1>

Accessing expense data will be business expenses that the hospital incurs that is applicable to auditing. The billing audit screen will show all of the line items, their corresponding billable amount, and the amount a customer has paid toward the balance. This screen can be sorted by line item type or by date. This list will be read only.

```php
<?php


$sql = "SELECT p.FNAME,p.LNAME, TYPE_OF_EXPENSE, AMOUNT, DATE_REQUESTED,
a.FNAME, a.LNAME, COMMENTS FROM
```

```php
PHYSICIANS p, ACCOUNTANTS a, HOSPITAL_EXPENSES

WHERE REQUESTED_BY=p.SSN AND FILLED_BY=a.SSN;";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows=mysql_numrows($result);


if ($numrows>0)

{?>

<h1> Hospital Expenses to Date: </h1>

<table border=5;> <tr style='font-weight:bold;'><td>Name</td><td>Expense Type</td><td>Amount</td><td>Date Requested</td>

<td>Approved By</td><td>Comments</td></tr>

<?

 for($i=0;$i<$numrows;$i++)

 {

 $rname = mysql_result($result,$i,0)." ".mysql_result($result,$i,1);

 $fname = mysql_result($result,$i,5)." ".mysql_result($result,$i,6);

 $f1 = mysql_result($result,$i,2);

 $f2 = mysql_result($result,$i,3);

 $f3 = mysql_result($result,$i,4);

 $f4 = mysql_result($result,$i,7);

 echo "<tr><td>$rname</td><td>$f1</td><td> $f2</td><td> $f3</td><td>$fname</td><td> $f4</td></tr>";

 }


 }

$sql = "SELECT f.FNAME,f.LNAME, TYPE_OF_EXPENSE, AMOUNT, DATE_REQUESTED, a.FNAME, a.LNAME, COMMENTS FROM

FACILITY_STAFF f, ACCOUNTANTS a, HOSPITAL_EXPENSES

WHERE REQUESTED_BY=f.SSN AND FILLED_BY=a.SSN;";
```

```php
$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows=mysql_numrows($result);

if($numrows>0)

{

 for($i=0;$i<$numrows;$i++)

 {

 $rname = mysql_result($result,$i,0)." ".mysql_result($result,$i,1);

 $fname = mysql_result($result,$i,5)." ".mysql_result($result,$i,6);

 $f1 = mysql_result($result,$i,2);

 $f2 = mysql_result($result,$i,3);

 $f3 = mysql_result($result,$i,4);

 $f4 = mysql_result($result,$i,7);

 echo "<tr><td>$rname</td><td>$f1</td><td> $f2</td><td> $f3</td><td>$fname</td><td> $f4</td></tr>";

 }

echo"</table>";

}

include("body_end.php");

include("footer.php");

?>
```

Billingreports.php

```php
<?php


include("includes.php");

include("header.php");
```

```
include("body_start.php");


?>

<h1>Billing Menu</h1>

On this screen, accounting users will enter the customers ID, which is their SSN, into the
lookup box

and see a report of all of the customer's charges in a line by line form. These screens are
read-only.

<br><br>

<form name='bills' action='billingreports.php' method='post'>

<input type='text' name='custid' size='20' value='Enter Customer ID'> <input
type='submit' value='Find Billing Report'>

<br><br>

    <?php

$custid=$_POST['custid'];

$sql = "select DATE_OF_CHARGE,AMT_DUE, PAID, COMMENTS, FNAME, LNAME from
PATIENTS,ACCOUNTS_PAYABLE where ssn=pssn and ssn = '$custid';";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows = mysql_numrows($result);

if ($numrows>0)

{

$fname = mysql_result($result,$i,4);

$lname = mysql_result($result,$i,5);

?>

<h1> <? echo "$fname $lname";?></h1>

<?

echo "<table border=1;> <tr style='font-weight:bold;'><td>Date of Charge</
td><td>Amount Billed</td><td>Amount Paid</td><td>Payment Information</td></
tr>";

 for($i=0;$i<$numrows;$i++)

 {
```

```php
$f1 = mysql_result($result,$i,0);

$f2 = mysql_result($result,$i,1);

$f3 = mysql_result($result,$i,2);

$f4 = mysql_result($result,$i,3);

echo "<tr><td>$f1</td><td> $f2</td><td> $f3</td><td> $f4</td></tr>";

echo "     ";

 }

echo"</table>";

}

include("body_end.php");

include("footer.php");

?>
```

Body_end.php

```php
<?php


?>
</div>
<div id="body_footer">
<?php
include("body_footer.php");
?>
</div>
```

Body_footer.php

```php
<?php
// place for body's footer


?>
```

Body_header.php

```php
<?php
// place for main pages header information
?>
```

Body_start.php

```php
<?php


?>
<div id="body_header">
<?php
```

```php
include("body_header.php");

?>

</div>

<div id="menu">

<?php

include("menu.php");

?>

</div>

<div id="content">
```

Createaccount.php

```php
<?php

$trigger='true';

include("includes.php");

include("header.php");

include("body_start.php");


?>

<div id='accountcreation'>

<h1>Create an Account</h1>

<form name='createaccount' action='validateaccount.php' method='post'>


First Name:<br>

<input type='text' name='firstname' style='width: 150px;' value='<?php echo
$_SESSION['firstname'] ?>'><br>
```

Middle Name: (Optional)

<input type='text' name='middlename' style='width: 100px;' value='<?php echo $_SESSION['middlename'] ?>'>

Last Name:

<input type='text' name='lastname' style='width: 150px;' value='<?php echo $_SESSION['lastname'] ?>'>

Desired Username: (jsmith, etc.)

<input type='text' name='username' style='width: 120px;' value='<?php echo $_SESSION['username'] ?>'>

Password:

<input type='text' name='password1' style='width: 150px;' value='<?php echo $_SESSION['password1'] ?>'>

Re-type Password:

<input type='text' name='password2' style='width: 150px;' value='<?php echo $_SESSION['password2'] ?>'>

Phone Number:

<input type='text' name='phone' style='width: 115px;' value='<?php echo $_SESSION['phone'] ?>'>

E-mail Address:

<input type='text' name='email' style='width: 200px;' value='<?php echo $_SESSION['email'] ?>'>

Anti-bot check

Enter one of the following colors: red, green, yellow, or blue.

<?php displayCaptcha(); ?>

<input type='text' name='address' style='width: 150px;'>

<input type='submit' value='Create Account'>   Cancel


```php
</form>
</div>
<?php

include("body_end.php");
include("footer.php");



function displayCaptcha()
{

  $pick = rand(5,12);

  if ($pick == 5)
  {
    echo "What color are pine needles?";
    $_SESSION['captcha'] = "green";
  }
  if ($pick == 6)
  {
    echo "What color is the sky?";
    $_SESSION['captcha'] = "blue";
  }
  if ($pick == 7)
  {
    echo "What color is the sun?";
    $_SESSION['captcha'] = "yellow";
  }
```

```php
  if ($pick == 11)

  {

    echo "What color is a second place ribbon/award?";

    $_SESSION['captcha'] = "red";

  }

  if ($pick == 12)

  {

    echo "What color is a first place ribbon/award?";

    $_SESSION['captcha'] = "blue";

  }


}
?>
```

Customersupport.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");

?>
```

<h1>Customer Support</h1>

Enter in customer ID to get customer profile.

```php
<br>

<form name='add' action='customersupport.php' method='post'>

<? $cust=$_POST['custid'];

$addrow = $_POST['addRow'];

if ($addrow=="Add")

{

$apptDate = $_POST['addApp'];

$time = $_POST['time'];

$sql = "SELECT MAX(visitid) FROM PATIENT_VISIT";

$result=mysql_query($sql) or die("Error in select max routine");

$vid = mysql_result($result,0,0);

$vid=$vid+1;

$sql = "SELECT FNAME, LNAME from PATIENTS where ssn=$cust;";

$result=mysql_query($sql) or die("Error in add routine".mysql_error());

$fname = mysql_result($result,0,0);

$lname = mysql_result($result,0,1);

$sql = "INSERT INTO PATIENT_VISIT(PSSN,DATE_OF_VISIT,TIME,VISITID) VALUES
('$cust','$apptDate', '$time',$vid);";

$result=mysql_query($sql) or die("Error in insert routine".mysql_error());

}

$delrow = $_POST['del'];

if ($delrow!="")

{

$sql = "DELETE FROM PATIENT_VISIT WHERE VISITID=$delrow;";

$result=mysql_query($sql) or die("Error in delete routine".mysql_error());

}?>
```

```php
<input type='text' name='custid' size='20' value='<? echo "$cust";?>'> <input
type='submit' value='Find'>

<br>


<?php

$custid=$_POST['custid'];

$sql = "select FNAME, LNAME, DATE_OF_VISIT, time, visitid from PATIENTS,PATIENT_VISIT

where ssn=pssn and ssn = '$custid';";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows = mysql_numrows($result);

if ($numrows>0)

{

echo "</br>";

echo "<table border=1;> <tr style='font-weight:bold;'><td>Frist Name</td><td>Last
Name

</td><td>Appointment Date</td><td>Time</td><td>Delete?</td></tr>";

 for($i=0;$i<$numrows;$i++)

 {

 $f1 = mysql_result($result,$i,0);

 $f2 = mysql_result($result,$i,1);

 $f3 = mysql_result($result,$i,2);

 $f4 = mysql_result($result,$i,3);

 $f5 = mysql_result($result,$i,4);

 echo "<tr><td>$f1</td><td> $f2</td><td> $f3</td><td> $f4</td><td><input
type='submit' name='del' value=$f5></input></td></tr>";

 }

echo"</table>";
```

```php
echo "Appointment Date:<input type='text' name='addApp' size='20'>

<br>

Time:


  <input type='text' name='time' size=15></input>

 <input type='submit' name='addRow' value='Add'>";


}
include("body_end.php");
include("footer.php");


?>
```

Database.php

```php
<?php


$dbhost = "svn.serverwench.com";

$dbuser = "emrks";

$dbpass = "emrks77";

$db = "emrksdb";


$dbconnection = mysql_connect($dbhost, $dbuser, $dbpass) or die ("Unable to connect");

mysql_select_db($db) or die ("Unable to select database");
```

?>

Facilitystaff.php

<?php

include("includes.php");

include("header.php");

include("body_start.php");

?>

<h1>Facility Staff</h1>

One of the most important priorities for any medical facility is the cleanliness of its rooms. Facility staff primary goals are to clean rooms soon after being vacated, make sure equipment is the proper location, and find equipment that has been requested. After authentication, the facility staff will see options to look up rooms that need cleaning, retrieve equipment move requests, and find equipment location.

Rooms That Need Cleaning

Rooms that are assigned the need for cleaning with a description of the type of cleaning (equipment, floors, bedding, etc) shall be kept in an updated list that is easily marked off by staff as they are done with completion of cleaning. On this screen, the facility staff will be able to see the rooms that need cleaning. After service has been rendered, the user will select the room completion option or select the an option to detail why a room is not clean. Such circumstances may be: the room has a leaky room, the bathroom sink is broken, a floor tile is cracked, etc. Once the room has been repaired, the user will select the room completion option to notify the system of a room available.

Retrieve Equipment Move Requests

Medical staff need equipment and materials to be in a room. The request specifies the equipment and to the room to which it should be moved. The screen will be an ordered list of equipment move requests. The list will be a first come, first serve order. Once the request has been completed, the facility user will choose the request completed option and then next request will be shown.

Find Equipment Location

An online look up system shall be implemented to allow staff to look up equipment location quickly at any network accessible location. This screen will ask for the major equipment ID or equipment name and display a list of equipment and its location. This screen is read only.

```php
<?php


include("body_end.php");

include("footer.php");

?>
```

Footer.php

```
</div>

</center>

</BODY>

</HTML>
```

Header.php

```php
<?php
if ($pagetitle == "")

   $pagetitle = "Default title";


?>
```
```html
<HTML>
```

```
<HEAD>

<link rel="stylesheet" type="text/css" href="screen.css" media="screen" />

<link rel="stylesheet" type="text/css" href="print.css" media="print" />

<TITLE><?php echo $pagetitle ?></TITLE>

</HEAD>

<BODY>

<center>

<div id='mainbody'>
```

Includes.php

```php
<?php
session_start();


if (($_SESSION['username'] == null || $_SESSION['username'] == "") && $trigger != "true")

{

    $_SESSION['loginerror']="You are not logged in.";

    $_SESSION['login']="false";

    SESSION_write_close();

    header("Location: index.php");

    exit();

}



include("database.php");

?>
```

Index.php

```php
<?php
$pagetitle = "Electronic Medical Record Keeping System";
$trigger = "true";


include("includes.php");


include("login.php");
$trigger = "false";
?>
```

Login.php

```php
<?php
include("includes.php");
if ($_SESSION['login'] == "true")
{
  header("Location: myaccount.php");
}
include("header.php");
```

```php
if ($_SESSION['login'] == null || $_SESSION['login'] == "false" || $_SESSION['login'] ==
"")

{


?>

<div id='mainbodylogin'>

<form name='loginform' action='authenticate.php' method='post'>

<div id='loginbox'>

<div id='loginerror'>

<?php

echo $_SESSION['loginerror'];

$_SESSION['loginerror'] = "";

?>

</div>

<div id='userfield1'>Username: </div><div id='userfield2'><input type='text'
name='username' style='width: 150px;' value='<?php echo $_SESSION['username'] ?
>'></div>

<div id='passfield1'>Password: </div><div id='passfield2'><input type='password'
name='password' style='width: 150px;'></div>

<div id='createfield'><a href='createaccount.php'>Create an account.</a></div>

<div id='loginsubmit'><input type='submit' value='Login'></div>

</form>

</div>

<?php

}
elseif ($_SESSION['login'] == "true")

{

   include("myaccount.php");

}

else
```

```
{
    session_destroy();
}
include("footer.php");
?>
```

Logout.php

```php
<?php
include("includes.php");

//include("header.php");
session_destroy();
session_start();
$_SESSION['loginerror'] = "Your session has ended.";
$_SESSION['login'] = "false";
header("Location: index.php");
?>

<?php

//include("footer.php");
?>
```

Medicalhistory.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

```html
<h1>Patient Medical History</h1>

<br>Physicians and Nurses may use this screen to retrieve patient history. <br><br>

Enter patient social security number to retrieve patient history.

<br><br>

<form name='history' action='medicalhistory.php' method='post'>

<input type='text' name='custid' size='20' value='Enter Customer ID'> <input type='submit' value='Find Patient History'>

<br><br>
```

```php
    <?php
$custid=$_POST['custid'];

if ($custid != "" && $custid > 0)

{

    $sql = "select pv.HEIGHT, pv.WEIGHT, pv.BLOOD_P, pv.DATE_OF_VISIT, pv.COMMENTS, p.FNAME, p.LNAME, p.MINIT, pv.DSSN, pv.NSSN from PATIENTS as p ,PATIENT_VISIT as pv where p.ssn=pv.pssn and p.ssn = '$custid' ORDER BY DATE_OF_VISIT DESC;";

    $result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

    $numrows = mysql_numrows($result);


    if ($numrows>0)

    {
```

```php
        $fname = mysql_result($result,$i,5);

        $lname = mysql_result($result,$i,6);

        $minit = mysql_result($result,$i,7);

        ?>

        <h1> <? echo "$fname $minit. $lname";?></h1>

        <?

        echo "<table style='border-width=1px;border-spacing:1px;;border-style:solid;border-color:black;'> <tr  bgcolor=lightgray  style='font-weight:bold;'><td>Date of Visit</td><td>Physician</td><td>Nurse</td><td rowspan=2>Details</td></tr><tr><td>Height</td><td>Weight</td><td>Blood Pressure</td></tr>";

        for($i=0;$i<$numrows;$i++)

        {

                $height = mysql_result($result,$i,0);

                $weight = mysql_result($result,$i,1);

                $blood_p = mysql_result($result,$i,2);

                $dateofvisit = mysql_result($result,$i,3);

                $comments = mysql_result($result,$i,4);

                $doctor = mysql_result($result,$i,8);

                $nurse = mysql_result($result,$i,9);

                $sql2 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from PHYSICIANS where ssn = '$doctor';";

                $sql3 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from NURSES where ssn = '$nurse';";

                $result2 = mysql_query($sql2) or die("Error in string: $sql2. ".mysql_error());

                $result3 = mysql_query($sql3) or die("Error in string: $sql3. ".mysql_error());

                $doctor = mysql_result($result2,0,0);

                $nurse = mysql_result($result3,0,0);


                echo "<tr bgcolor=lightgray><td> <strong>$dateofvisit</strong></
```

```php
td><td> <strong>Dr. $doctor</strong></td><td> <strong>$nurse</strong></td><td
rowspan=2> $comments</td></tr><tr><td>$height</td><td> $weight</td><td>
$blood_p</td></tr>";

                        echo "        ";

                }

                echo"</table>";

        }

        else

        {

                echo "Patient history for ID# $custid not found!";

        }

}

elseif ($custid == "" && $custid <= 0)

{

}

else

{

}

include("body_end.php");

include("footer.php");

?>
```

Menu.php

```php
<?php
```

```php
if ($_SESSION['login'] == "true")

{

?>


<a href="accountant.php">Accountant</a><br>

<a href="auditor.php">Auditor</a><br>

<a href="customersupport.php">Customer Support</a><br>

<a href="facilitystaff.php">Facility Staff</a><br>

<a href="physician.php">Physician</a><br>

<a href="nurse.php">Nurse</a><br>

<a href="receptionist.php">Receptionist</a><br>

<a href="pharmacist.php">Pharmacist</a><br>

<a href="patient.php">Patient</a><br>

<br><br>

<a href="logout.php">Logout</a><br>

<?php

}


?>
```

Myaccount.php

```php
<?php


include("includes.php");

include("header.php");
```

```php
include("body_start.php");


?>
```

<h1>Main Menu</h1>

Select a menu item from the left.

Developers note: Users will only see options for which they have access.

```php
<?php


include("body_end.php");
include("footer.php");
?>
```

Nurse.php

```php
<?php


include("includes.php");
include("header.php");
include("body_start.php");


?>
```

<h1>Nurses</h1>

Nurses are responsible for the well-being and early seeing of the patients. As such they will have access to the patients files to prep them before being seen by a doctor or physician. Nurses also enter details about their interactions with patients. After authentication, nurses will be able to do patient record retrieval and do a patient visitation detail submission.

```php
<br><br>

<a href='medicalhistory.php'>View Patient Medical History</a><br />

<a href='submitvisit.php'>Enter Patient Visit Details</a><br />


<?php


include("body_end.php");

include("footer.php");

?>
```

Patient.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
<h1>Patients</h1>
```

   Patients are the primary focus of this hospital. They are the ones tended to and need to have access to their own files but no one else's. They also should be able to see their files online and to schedule/cancel appointments online, pay bills etc.


```php
<a href='patienthistory.php'>View Medical History</a><br />


<a href='patientscheduling.php'>Schedule an appointment</a><br />
```

```php
<?php
```

```php
include("body_end.php");

include("footer.php");

?>
```

Patienthistory.php

```php
<?php
```

```php
include("includes.php");

include("header.php");

include("body_start.php");


?>
```

<h1>Patient Medical History</h1>

Patient may use this screen to retrieve patient history.

     An online viewing system will be set up with authorization that the patient can review their own medical history and medical files. Patient history will include all relevant medical history data. Relevant medical history includes: blood pressure, cholesterol, height, weight, surgeries, date of visit, prescribed medicine, notes, and allergies.

```php
        <?php
$custid=$_SESSION['uid'];

if ($custid != "" && $custid > 0)

{
```

```php
        $sql = "select pv.HEIGHT, pv.WEIGHT, pv.BLOOD_P, pv.DATE_OF_VISIT,
pv.COMMENTS, p.FNAME, p.LNAME, p.MINIT, pv.DSSN, pv.NSSN from PATIENTS as
p ,PATIENT_VISIT as pv where p.ssn=pv.pssn and p.ssn = '$custid' ORDER BY
DATE_OF_VISIT DESC;";

        $result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

        $numrows = mysql_numrows($result);


        if ($numrows>0)

        {

                $fname = mysql_result($result,$i,5);

                $lname = mysql_result($result,$i,6);

                $minit = mysql_result($result,$i,7);

                ?>

                <h1> <? echo "$fname $minit. $lname";?></h1>

                <?

                echo "<table style='border-width=1px;border-spacing:1px;;border-
style:solid;border-color:black;'> <tr  bgcolor=lightgray  style='font-
weight:bold;'><td>Date of Visit</td><td>Physician</td><td>Nurse</td><td
rowspan=2>Details</td></tr><tr><td>Height</td><td>Weight</td><td>Blood
Pressure</td></tr>";

                for($i=0;$i<$numrows;$i++)

                {

                        $height = mysql_result($result,$i,0);

                        $weight = mysql_result($result,$i,1);

                        $blood_p = mysql_result($result,$i,2);

                        $dateofvisit = mysql_result($result,$i,3);

                        $comments = mysql_result($result,$i,4);

                        $doctor = mysql_result($result,$i,8);

                        $nurse = mysql_result($result,$i,9);

                        $sql2 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from PHYSICIANS
where ssn = '$doctor';";

                        $sql3 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from NURSES
```

```php
where ssn = '$nurse';";

                $result2 = mysql_query($sql2) or die("Error in string: $sql2.
".mysql_error());

                $result3 = mysql_query($sql3) or die("Error in string: $sql3.
".mysql_error());

                $doctor = mysql_result($result2,0,0);

                $nurse = mysql_result($result3,0,0);


                echo "<tr bgcolor=lightgray><td> <strong>$dateofvisit</strong></
td><td> <strong>Dr. $doctor</strong></td><td> <strong>$nurse</strong></td><td
rowspan=2> $comments</td></tr><tr><td>$height</td><td> $weight</td><td>
$blood_p</td></tr>";

                echo "        ";

        }

        echo"</table>";

    }

    else

    {

        echo "Patient history for ID# $custid not found!";

    }

}
elseif ($custid == "" && $custid <= 0)

{

}

else

{

}

include("body_end.php");

include("footer.php");

?>
```

Patientscheduling.php

```php
<?php

include("includes.php");

include("header.php");

include("body_start.php");

?>
```

```html
<h1>Patient Scheduling</h1>
```

Patients will, with proper authentication, be able to view their upcoming appointments and request to modify them to cancel/reschedule according to time-slots available with their doctor/physician. Upon approval they will receive an email, mail, or telephone call notifying them of the changes.

```html
<br>
```

```php
<?php


include("body_end.php");

include("footer.php");

?>
```

Pharmacist.php

```php
<?php
```

```php
include("includes.php");

include("header.php");

include("body_start.php");


?>

<h1>Pharmacists</h1>
```

   Pharmacists are responsible for the administration of drugs with proper forms given by a doctor. As doctors fill out prescriptions (online or by paper) the pharmacists are allowed to check and see prescriptions for patients and give out the medicine as needed. Pharmacists will also need to update inventory when new shipments arrive.

```html
<br><br>

<a href='rxcheck.php'>View Patient Prescriptions</a><br />

<a href='rxinventory.php'>View Inventory</a><br />


<?php


include("body_end.php");

include("footer.php");

?>
```

Pharmacyaudit.php

```php
<?php


include("includes.php");

include("header.php");
```

```php
include("body_start.php");


?>

<h1>Pharmacy Audits</h1>

    Accessing and tracking prescriptions and pharmacological stock. The pharmacy audit
screen will show, for each pharmacological item, the pharmacy's purchased amount, the
current inventory amount, and the amount prescribed. The audit user will be able to view an
entire history of a pharmacological item by selecting it from the list. This history will show
chronologically the inventory levels, including purchases, prescriptions, or expirations.


    <?php


$sql = "SELECT p.FNAME,p.LNAME, TYPE_OF_EXPENSE, AMOUNT, DATE_REQUESTED,
a.FNAME, a.LNAME, COMMENTS FROM

PHARMACISTS p, ACCOUNTANTS a, HOSPITAL_EXPENSES

WHERE REQUESTED_BY=p.SSN AND FILLED_BY=a.SSN;";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows=mysql_numrows($result);


if ($numrows>0)

{?>

<h1> Pharmacy Expenses to Date: </h1>

<table border=3;> <tr style='font-weight:bold;'><td>Name</td><td>Expense Type</td><td>Amount</td><td>Date Requested</td>

<td>Approved By</td><td>Comments</td></tr>

<?
 for($i=0;$i<$numrows;$i++)

 {

 $rname = mysql_result($result,$i,0)." ".mysql_result($result,$i,1);

 $fname = mysql_result($result,$i,5)." ".mysql_result($result,$i,6);

 $f1 = mysql_result($result,$i,2);
```

```php
$f2 = mysql_result($result,$i,3);

$f3 = mysql_result($result,$i,4);

$f4 = mysql_result($result,$i,7);

echo "<tr><td>$rname</td><td>$f1</td><td> $f2</td><td> $f3</td><td>$fname</td><td> $f4</td></tr>";

}
echo "</table>";

}



include("body_end.php");

include("footer.php");

?>
```

Physician.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

```html
<h1>Physicians</h1>

<br>Physicians include doctors and pediatricians.  They are responsible, along with nurses, for caring for the patients.  As the doctors see patients they will have access to patient medical history and be responsible for electronically logging the details of the most previous patient visit.  However, they will not have access to things such as patient financial information.  Physicians will enter patient visit details after the visitation has ended.

<br><br>
```

```
<a href='medicalhistory.php'>View Patient Medical History</a><br />

<a href='submitvisit.php'>Enter Patient Visit Details</a><br />


<?php


include("body_end.php");

include("footer.php");

?>
```

Print.css

```
body

{

  background-color: white;

}


#mainbody

{

  border-width: 0px;

  border-style: solid;

  border-color: black;

  position: relative;

  text-align: left;

  width: 760px;

  height: 90%;

  text-size: 12pt;
```

```css
    background-image: url('images/logo1.jpg');

    background-repeat: no-repeat;

    background-position: top left;

}


#mainbodylogin

{

    border-width: 0px;

    border-style: solid;

    border-color: black;

    position: relative;

    text-align: left;

    width: 760px;

    height: 100%;

    text-size: 12pt;

    background-color: white;

    background-image: url('images/logo2.jpg');

    background-repeat: no-repeat;

    background-position: left center;

}


#loginbox

{

    position: absolute;

    top: 50%;

    margin-left: 15em;

    margin-top: -5em;

    width: 250px;
```

```css
    text-align: right;

    border-width: 0px;

    border-style: solid;

    border-color: black;

    padding: 10px;

}


#loginerror

{

    color: red;

    font-weight: bolder;

    font-size: 10pt;

    font-family: arial;

}


#userfield1

{

    float: left;

    text-align: right;

    text-size: 10pt;

    font-family: arial;

}


#userfield2

{

    text-align: right;

    text-size: 10pt;

    font-family: arial;
```

```css
}


#passfield1

{

   float: left;

   text-align: right;

   text-size: 10pt;

   font-family: arial;

}


#passfield2

{

   text-align: right;

   text-size: 10pt;

   font-family: arial;

}


#createfield

{

   float: left;

   text-align: right;

   font-size: 8pt;

   margin-top: 7px;

   font-family: arial;

}


#submitlogin

{
```

```css
  width: 55px;

  float: right;

  text-align: right;

}


#body_header {

/*  background: #EEEEEE; */

  position: absolute;

  top: 0px;

  left: 1px;

  width: 620px;

  height: 100px;

}


#menu {

/*  background: #EEEEEE; */

  display:none;

  position: absolute;

  top: 170px;

  left: 0px;

  width: 0=1px;

  height: 500px;

  padding-left: 7px;

}


#content {

/*  background: #fff; */

  position: absolute;
```

```css
  top: 100px;

  left: 1px;

  width: 760px;

  height: 500px;

  padding-left: 15px;

  padding-top: 15px;

  padding-bottom: 15px;

}


#body_footer {

/*  background: #DDDDDD; */

  position: absolute;

  top: 500px;

  left: 0px;

  width: 760px;

  height: 100px;

  text-align: center;

}


#copyright

{

  position: relative;

  bottom: 0px;

   text-align: center;

   width: 100%;

}
```

Processpayments.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>

<h1>Process Payments</h1>

Here is where the accounting user will bring up a customer account and apply a processed
payment, or submit in the comments the reasons

why a payment failed.

<br><br>

<form name='getrecords' action='processpayments.php' method='post'>

<input type='text' name='custid' value='Enter Customer ID.'> <input type='submit'
value='Find Customer Account'>

<br><br>

<?php

$custnum=$_POST['custid'];

$sql = "select DATE_OF_CHARGE,AMT_DUE, PAID,DATE_PAID, COMMENTS, PAY_ID,
FNAME, LNAME, MINIT from PATIENTS,ACCOUNTS_PAYABLE where ssn=pssn and ssn =
'$custnum';";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$num=mysql_numrows($result);

if ($num>0)

{

$fname = mysql_result ($result,0,6);

$lname = mysql_result ($result,0,7);
```

```php
$minit = mysql_result ($result,0,8);


?>

<h2><? echo "$lname, $fname $minit.";?> </h2>

<?

echo "<table border=1;> <tr style='font-weight:bold;'><td>Date of Charge</td><td>Amount Billed</td><td>Amount Paid</td><td>Date Paid</td><td>Payment Information</td><td>Select One</td></tr>";

 for($i=0;$i<$num;$i++)

 {

 $f1 = mysql_result($result,$i,0);

 $f2 = mysql_result($result,$i,1);

 $f3 = mysql_result($result,$i,2);

 $f4 = mysql_result($result,$i,3);

 $f5 = mysql_result($result,$i,4);

 $f6 = mysql_result($result,$i,5);


 echo "<tr><td>$f1</td><td> $f2</td><td> $f3</td><td> $f4</td><td>$f5</td><td><input type='radio' name='WhichPayment' value='$f6' ></input></td></tr>";

 }

echo"</table>";

}

?>

<br><br></br></br></br>
```

Enter payment amount: ($120.59, $12824.23, etc)

<input type='text' name='payment' size='20'>

Enter payment type: (check, Visa, cash, etc.)

<input type='text' name='payment_type' size='10'>

Enter comments: (Include whether payment was successful or not.)

```
<textarea rows='5' name='comments' cols='50'>Enter comments here.</textarea><br>

<input type='submit' name='Process' value='Submit Processed Payment'>

<br><br>


<?

$button = $_POST['Process'];

if ($button == 'Submit Processed Payment');

{

$amt_paid=$_POST['payment'];

$comments=$_POST['payment_type'].". ".$_POST['comments'];

$id=$_POST['WhichPayment'];


$sql = "UPDATE ACCOUNTS_PAYABLE SET PAID='$amt_paid', DATE_PAID=CURDATE(),
COMMENTS='$comments' WHERE PAY_ID='$id';";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

}
?>


    <?php



include("body_end.php");

include("footer.php");

?>
```

Receptionist.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

9   Receptionists

   Receptionists are responsible for maintaining the scheduling of patients with the nurses and physicians. They should be allowed to update the scheduling but not see things such as patient medical history. Receptionists sometimes will need to handle patient payment requests. Receptionists, after logging in, will be able to access a screen which will allow them to enter a patient's SSN or MYID which will grant them an easy access view of the patient's schedule.

   9.1   Patient Scheduling

      Receptionists are able to access a patient's schedule after entering the patient's SSN or MYID into a lookup box and submitting it. They are then able to update their requests for them if necessary. If the patient has electronically requested an update the receptionist is responsible for allowing the change and notifying the patient and personnel necessary. As requests come in the receptionist will be able to confirm or deny the updated change. After either is selected the patient will be notified via email and telephone to let the patient know what decision they made and why.

   9.2   Registering Payment

      A patient may pay during their visit. The payment must be logged and pended to their account. Payment processing is done by accountants. If a patient is willing to pay during a visit to the hospital they may pay the receptionist. The receptionist is able to log into the system and access a patients billing screen by entering their SSN or MYID. From the billing screen they are able to update pending payments as the balance is adjusted with confirmed payments.

```php
<?php


include("body_end.php");

include("footer.php");

?>
```

Rxcheck.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
```

<h1>Prescription Check</h1>

Pharmacists will have limited access to an online page to see if the patient has the requested prescription approved by the doctor or not. The doctor must have administered it, and approved it, then marked a check box to authorize it as a digital signature. The pharmacist will be able to log in and put in the patient's SSN or MYID and be able to pull up their past and current prescription requests along with who administered them, the dosage, the medicine and the digital signature from the prescribing doctor. As prescriptions are filled, inventory is automatically updated as the pharmacist must close out the request for the medicine by either allowing it or denying it.

<form name='rx' action='rxcheck.php' method='post'>

<input type='text' name='custid' size='20' value='Enter Customer ID'> <input type='submit' value='Find Patient Prescriptions'>


```php
    <?php

$custid=$_POST['custid'];

if ($custid != "" && $custid > 0)

{

     $sql = "select pv.DSSN, pv.FILLED_BY_SSN, pv.DRUG_NAME, pv.DATE_OF_VISIT, pv.COMMENTS, p.FNAME, p.LNAME, p.MINIT from PATIENTS as p ,PRESCRIPTION as pv where p.ssn=pv.pssn and p.ssn = '$custid' ORDER BY DATE_OF_VISIT DESC;";
```

```php
$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$numrows = mysql_numrows($result);


if ($numrows>0)

{

        $fname = mysql_result($result,$i,5);

        $lname = mysql_result($result,$i,6);

        $minit = mysql_result($result,$i,7);

        ?>

        <h1> <? echo "$fname $minit. $lname";?></h1>

        <?

        echo "<table style='border-width=1px;border-spacing:1px;;border-style:solid;border-color:black;'> <tr  bgcolor=lightgray  style='font-weight:bold;'><td>Date of Prescription</td><td>Physician</td><td>Pharmacist</td><td>Drug name</td></tr><tr><td colspan=4>Details</td></tr>";

        for($i=0;$i<$numrows;$i++)

        {

                $drugname = mysql_result($result,$i,2);

                $dateofvisit = mysql_result($result,$i,3);

                $comments = mysql_result($result,$i,4);

                $doctor = mysql_result($result,$i,0);

                $pharm = mysql_result($result,$i,1);

                $sql2 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from PHYSICIANS where ssn = '$doctor';";

                $sql3 = "select CONCAT(FNAME,' ',MINIT,' ',LNAME) from PHARMACISTS where ssn = '$pharm';";

                $result2 = mysql_query($sql2) or die("Error in string: $sql2. ".mysql_error());

                $result3 = mysql_query($sql3) or die("Error in string: $sql3. ".mysql_error());

                $doctor = mysql_result($result2,0,0);
```

```php
                $pharm = mysql_result($result3,0,0);


                echo "<tr bgcolor=lightgray><td> <strong>$dateofvisit</strong></
td><td> Dr. $doctor</td><td> $pharm</td><td><strong>$drugname</strong></td></
tr><tr><td colspan=4> $comments</td></tr>";

                echo "        ";

            }

            echo"</table>";

        }

        else

        {

            echo "Patient prescriptions for ID# $custid: none found!";

        }

}

elseif ($custid == "" && $custid <= 0)

{

}

else

{

}

include("body_end.php");

include("footer.php");

?>
```

Rxinventory.php

```php
<?php
```

```php
include("includes.php");

include("header.php");

include("body_start.php");


?>

<h1>Pharmacological Inventory</h1>
```

Pharmacists will need to maintain an up-to-date inventory. When new stock arrives, it will need to be entered into the system in a spreadsheet type format page online. There will be a page which will tell of current medical stock, if the pharmacist wants to make any changes, and an update section will allow them to increase stock as new stock comes in.

```html
<br><br>

<form name='rx' action='rxinventory.php' method='post'>

<input type='text' name='drugname' size='20' value='Enter drug name'> <input type='submit' value='Find Inventory'>

<br><br>

    <?php
$drug=$_POST['drugname'];

if ($drug != "")

{

     $sql = "select DRUGS, COST, QUANTITY from DRUGS where DRUGS like '%$drug%';";

     $result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

     $numrows = mysql_numrows($result);


     if ($numrows>0)

     {

          ?>

     <br /><br /><table border=1><tr bgcolor="lightgray"><td>Drug Name</td><td>Cost</td><td>Quantity</td></tr>
```

```php
        <?
        $count = 0;
         for($i=0;$i<$numrows;$i++)
 {

        $dname = mysql_result($result,$i,0);

        $dcost = mysql_result($result,$i,1);

        $dqty = mysql_result($result,$i,2);
echo "<tr><td>$dname</td><td>$dcost</td><td>$dqty</td></tr>";
 }
 ?>
 </table>
 <?

     }
}
?>
</form>
<?
include("body_end.php");
include("footer.php");
?>
```

Screen.css

```css
body
{
  background-color: white;
```

```css
}


#mainbody

{

    border-width: 0px;

    border-style: solid;

    border-color: black;

    position: relative;

    text-align: left;

    width: 760px;

    height: 100%;

    text-size: 12pt;

    background-image: url('images/logo1.jpg');

    background-repeat: no-repeat;

    background-position: top left;

}


#mainbodylogin

{

    border-width: 0px;

    border-style: solid;

    border-color: black;

    position: relative;

    text-align: left;

    width: 760px;

    height: 100%;

    text-size: 12pt;

    background-color: white;
```

```css
    background-image: url('images/logo2.jpg');

    background-repeat: no-repeat;

    background-position: left center;

}


#loginbox

{

    position: absolute;

    top: 50%;

    margin-left: 15em;

    margin-top: -5em;

    width: 250px;

    text-align: right;

    border-width: 0px;

    border-style: solid;

    border-color: black;

    padding: 10px;

}


#loginerror

{

    color: red;

    font-weight: bolder;

    font-size: 10pt;

    font-family: arial;

}


#userfield1
```

```css
{
    float: left;
    text-align: right;
    text-size: 10pt;
    font-family: arial;
}

#userfield2
{
    text-align: right;
    text-size: 10pt;
    font-family: arial;
}

#passfield1
{
    float: left;
    text-align: right;
    text-size: 10pt;
    font-family: arial;
}

#passfield2
{
    text-align: right;
    text-size: 10pt;
    font-family: arial;
}
```

```css
#createfield
{
  float: left;
  text-align: right;
  font-size: 8pt;
  margin-top: 7px;
  font-family: arial;
}


#submitlogin
{
  width: 55px;
  float: right;
  text-align: right;
}


#body_header {
/*  background: #EEEEEE; */
  position: absolute;
  top: 0px;
  left: 150px;
  width: 620px;
  height: 100px;
}


#menu {
/*  background: #EEEEEE; */
```

```css
  position: absolute;

  top: 170px;

  left: 0px;

  width: 150px;

  height: 500px;

  padding-left: 7px;

}


#content {

/*  background: #fff; */

  position: absolute;

  top: 100px;

  left: 150px;

  width: 610px;

  height: 500px;

  padding-left: 15px;

  padding-top: 15px;

  padding-bottom: 15px;

}


#body_footer {

/*  background: #DDDDDD; */

  position: absolute;

  top: 500px;

  left: 0px;

  width: 760px;

  height: 100px;

  text-align: center;
```

```
    }


#copyright

{

  position: relative;

  bottom: 0px;

   text-align: center;

   width: 100%;

}
```

Submitvisit.php

```php
<?php


include("includes.php");

include("header.php");

include("body_start.php");


?>
<h1>Patient Visit Details Submission</h1>

<br>Need description and instructions.

<br><br>

<form name='updateappointment' action='submitvisit.php' method='post'>

<input type='text' name='custid' value='Enter Customer ID'> <input type='submit' value='Find Customer Appointment'>
```

```php
<br><br>

<?php

$custnum=$_POST['custid'];

$sql = "select DATE_OF_VISIT,HEIGHT, WEIGHT,BLOOD_P, COMMENTS, visitid, FNAME,
LNAME, MINIT from PATIENTS,PATIENT_VISIT where ssn=pssn and ssn = '$custnum' order
by DATE_OF_VISIT desc;";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

$num=mysql_numrows($result);

if ($num>0)

{

$fname = mysql_result ($result,0,6);

$lname = mysql_result ($result,0,7);

$minit = mysql_result ($result,0,8);


?>

<h2><? echo "$lname, $fname $minit.";?> </h2>

<?

echo "<table border=1;> <tr style='font-weight:bold;'><td>Date of Visit</
td><td>Height</td><td>Weight</td><td>Blood Pressure</td><td>Comments</
td><td>Select One</td></tr>";

 for($i=0;$i<$num;$i++)

 {

 $f1 = mysql_result($result,$i,0);

 $f2 = mysql_result($result,$i,1);

 $f3 = mysql_result($result,$i,2);

 $f4 = mysql_result($result,$i,3);

 $f5 = mysql_result($result,$i,4);

 $f6 = mysql_result($result,$i,5);


 echo "<tr><td>$f1</td><td> $f2</td><td> $f3</td><td> $f4</td><td>$f5</
```

```
td><td><input type='radio' name='WhichAppointment' value='$f6' ></input></td></tr>";

 }

echo"</table>";

?>

<br><br></br>

Height:<br>

<input type='text' name='height' size='20'> <br>

Weight:<br>

<input type='text' name='weight' size='20'> <br>

Blood Pressure<br>

<input type='text' name='bloodpressure' size='10'><br>

Enter comments: (be detailed.)<br>

<textarea rows='5' name='comments' cols='50'></textarea><br>

<input type='submit' name='process' value='Submit Patient Report'>

<br><br>

<?

}

?>

<?

$button = $_POST['process'];

if ($button == 'Submit Patient Report');

{

$height=$_POST['height'];

$weight=$_POST['weight'];

$bp=$_POST['bloodpressure'];

$comments=$_POST['comments'];

$id=$_POST['WhichAppointment'];
```

```php
$sql = "UPDATE PATIENT_VISIT SET ";

if ($height != "")
{
        $sql=$sql."HEIGHT='$height', ";
}
else
{
        $sql=$sql."HEIGHT=HEIGHT, ";
}


if ($weight != "")
{
        $sql=$sql."WEIGHT='$weight', ";
}
else
{
        $sql=$sql."WEIGHT=WEIGHT, ";
}


if ($bp != "")
{
        $sql=$sql."BLOOD_P='$bp', ";
}
else
{
        $sql=$sql."BLOOD_P=BLOOD_P, ";
}
```

```php
$sql=$sql." COMMENTS=if(COMMENTS is
null,CONCAT(CURDATE(),':<br>','$comments','<br>'),CONCAT(COMMENTS,CONCAT('<br>'
,CURDATE(),':<br>'),'$comments','<br>'))  WHERE visitid='$id';";

$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());

}
?>

</form>


<?php


include("body_end.php");

include("footer.php");

?>
```

Validateaccount.php

```php
<?php
include("includes.php");

include("header.php");

include("body_start.php");


?>



<?php


include("body_end.php");
```

```php
include("footer.php");

?>
```

Verifyaccountbalance.php

```php
<?php

include("includes.php");
include("header.php");
include("body_start.php");

?>
<h1>Verify Account Balance</h1>
```
Accountants will use the system to retrieve the inquirer's balance. By entering into a lookup box the customer's SSN, the accountant will be able to see the the customer's current balance.

```
<br><br>
<form name='verifybalance' action='verifyaccountbalance.php' method='post'>
<input type='text' name='custid' size='20' value='Enter Customer ID'> <input
type='submit' value='Get Account Balance'>
<br><br>

    <?php
$custid=$_POST['custid'];
$sql = "select fname,lname,SUM(AMT_DUE) as Debt, SUM(PAID) as Credit,
SUM(AMT_DUE)-SUM(PAID) as Remaining_Balance from PATIENTS,ACCOUNTS_PAYABLE
where ssn=pssn and ssn = '$custid';";
$result = mysql_query($sql) or die("Error in string: $sql. ".mysql_error());
$numrows = mysql_numrows($result);
if ($numrows>0)
{
$fname = mysql_result($result,$i,0);
$lname = mysql_result($result,$i,1);
?>
 <h1>
  <? echo "$fname $lname";?>
 </h1>
<?
echo "<table border=1;> <tr style='font-weight:bold;'><td>Debt</td><td>Paid</
td><td>Remaining Balance</td></tr>";
 for($i=0;$i<$numrows;$i++)
 {
 $f1 = mysql_result($result,$i,2);
 $f2 = mysql_result($result,$i,3);
 $f3 = mysql_result($result,$i,4);
```

```php
 echo "<tr><td>$f1</td><td> $f2</td><td> $f3</td></tr>";
 echo "      ";
 }
echo"</table>";
}
?>
      <?php

include("body_end.php");
include("footer.php");
?>
```