Working of the Project

The project is basically an application for a **loom management system** to keep the record of the employees and keep a check on them that how the looming is done in the industries. The application is basically having six states

-LOGIN -HOME-REGISTRATION-LOOM-RESULT-LOGOUT-

Login:

Login is necessary to proceed further and to access the rest of the webpages. <u>Employee ID</u> and <u>password</u> is required to login. Admin privileges are needed to login i.e. an employee who is admin can login and anyone else cannot.

All of this is implemented using <u>Php</u> and <u>MySQL</u> database. There is an option available during the registration of an employee to make admin and set admin password for that employee. <u>Password hashing</u> is used in order to keep the password safe.

Authentication is done by using <u>Php</u> and <u>MySQL</u> database. If EMP Id and the password entered matches with the database, login is successful and user is redirected to the home page. And a LOGOUT option also becomes active with the HOME, REGISTRATION, LOOM, and RESULT in the left side bar.

Home:

After login is successful, user is redirected to the home page. It is an introduction page. It contains a brief introduction about loom and power loom.

User can now access the rest of the pages namely HOME, REGISTRATION, LOOM, RESULT.

Registration:

The registration page helps in the registration of new employees with the inputs like Employee_Id, Name, Age, Gender, DOB, Address, Permanent_Address, Conatact_No, Email, Make_Admin. On submitting, the data entered is stored in a database named as "Loom" in a table named as "reg".

Loom:

In this page, LOOM_No and EMP Id is entered. On submitting, It is checked if the entered loom is active or not then a loom management page is opened which has the inputs like Emp Id; Emp Name; Loom_No; Start Reading; End Reading; Type; Date; Shift.

If the loom is active, the user is redirected to the loom management page to stop the loom i.e. only end reading is to be entered the rest of the inputs are automatically fetched from the database named as "Loom" and a table named as "tmp". On submitting, end reading is updated in the temporary table "tmp" and the production table named as "loomtable" is also updated along with the "reg" table. After the production data is entered in all the required tables the temporary data is deleted and the loom is stopped.

If the loom is inactive, the user is redirected to the loom management page to start the loom i.e. only Start Reading and Type (type of cloth) is to be entered and there is no option to enter the end reading. The rest of the inputs are automatically filled from the database according to the EMP Id entered before. Date is automatically generated. Day or night Shift is also automated as per the time. On submitting the data is saved in the "tmp" table in "Loom" database.

Result:

It contains three inputs namely EMP ID, Type (type of cloth) and LOOM_No.

If only EMP Id is entered, on submitting the details of the employee with that employee id is shown in a tabular form also showing the production. This data is fetched from the "reg" table in the database "Loom".

If only Type is entered, on submitting the production of that cloth type is shown in a tabular form in ascending order of the loom number along with the total production. This data is fetched from the "loomtable" table in the database "Loom".

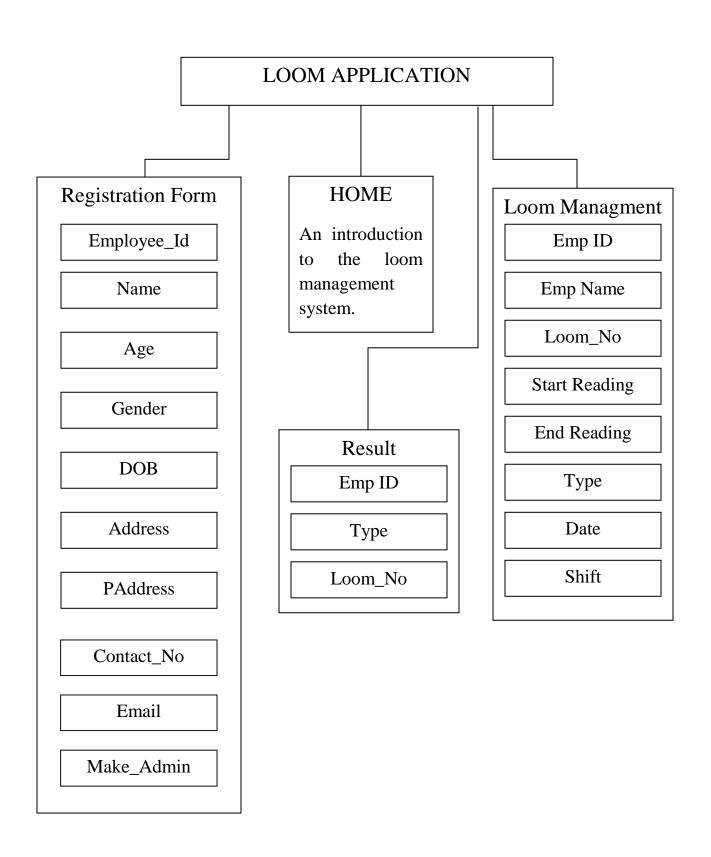
If only LOOM_No is entered, on submitting the total production of that loom is shown in a tabular form on the basis of type of cloth and shift along with the total production. This data is fetched from the "loomtable" table in the database "Loom".

If any two of the three inputs are entered, both the results are shown.

If all three inputs are entered, all the results are shown.

Logout:

On clicking LOGOUT, the user is redirected to the LOGIN page and the rest of the pages become inaccessible.



Loom WEB Application:

The project has been prepared by the use of three platform:

The front end has been prepared by the use of HTML. The front end has been designed by CSS to give the application a unique and attractive look.

The back end has been prepared by MySQL database. The name of the database is "Loom" and the three tables has been created as "reg", "tmp", "loomtable".

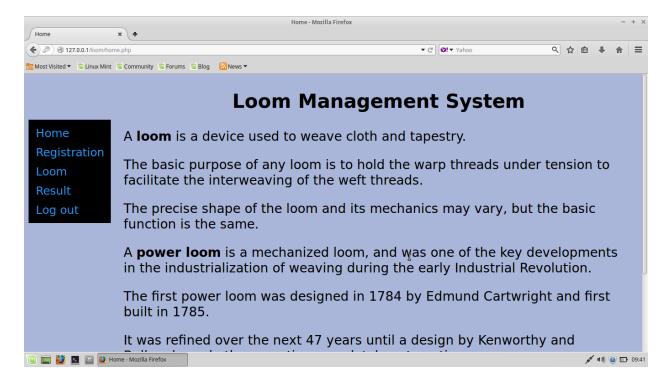
The connection between backend and frontend is done by using PHP which is one of the best platform to send the data to the database and receive data from the database.

We have to search 127.0.0.1 which is an address of loopBack Abapter through we can access the desired application.

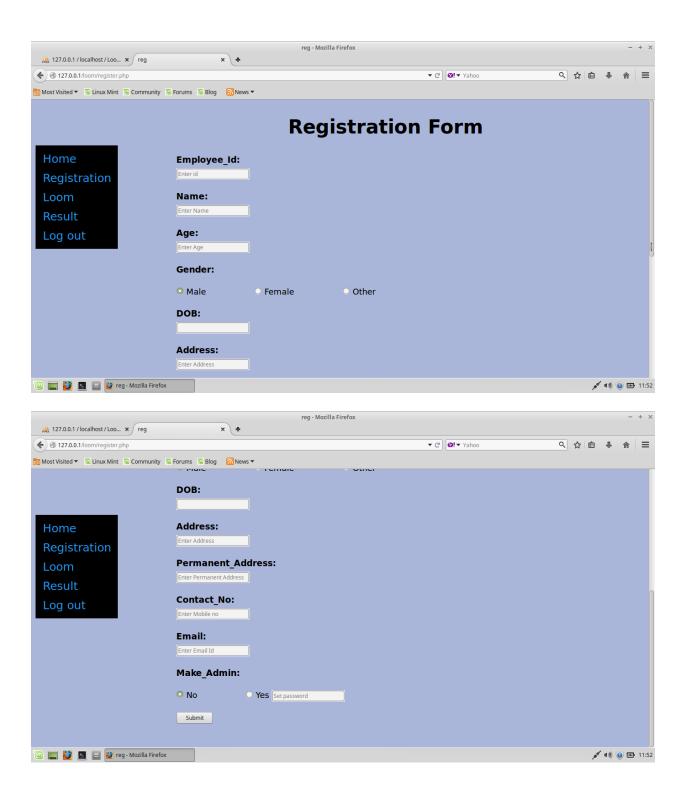
Login is required:



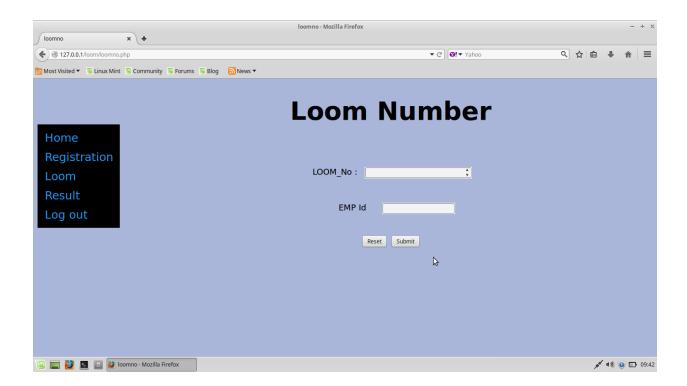
This is the home page of the application where you can find the way to:



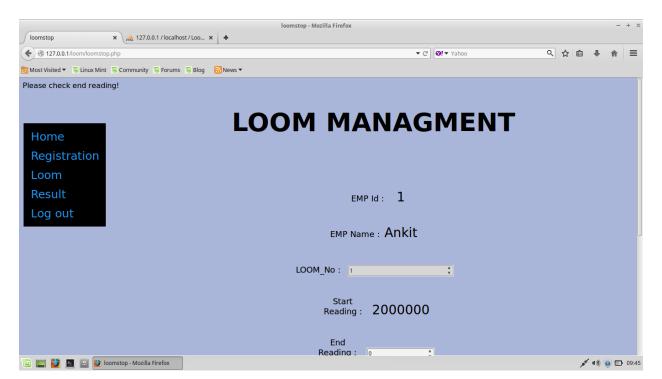
Registration form – where you can fill the new record for the database of the loom.

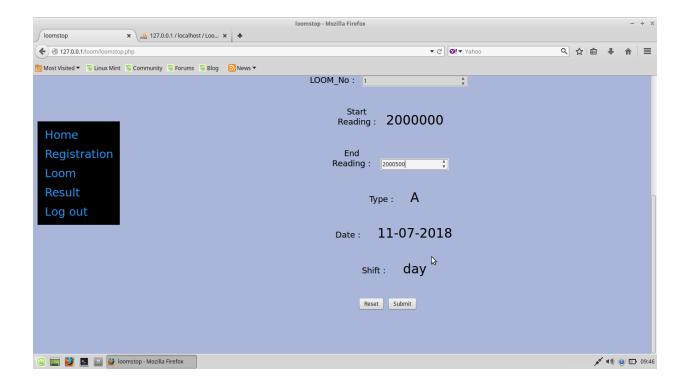


Loom management – where we can take the record to the loom form to check whether the loom is active or not.



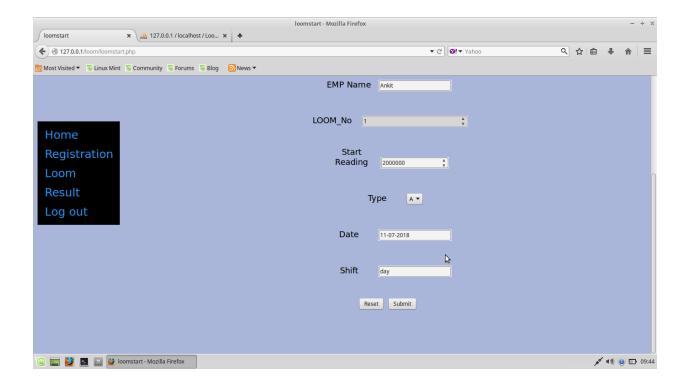
When the loom is in the active state.



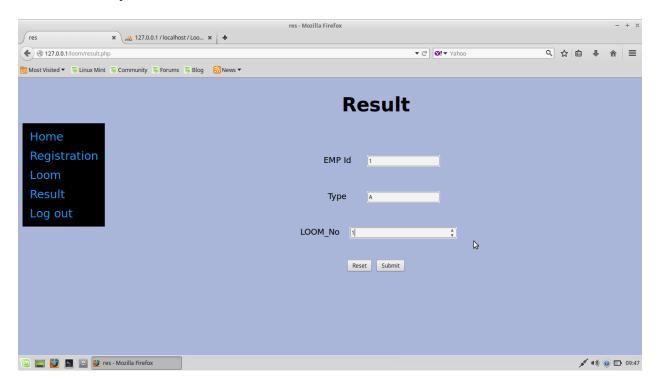


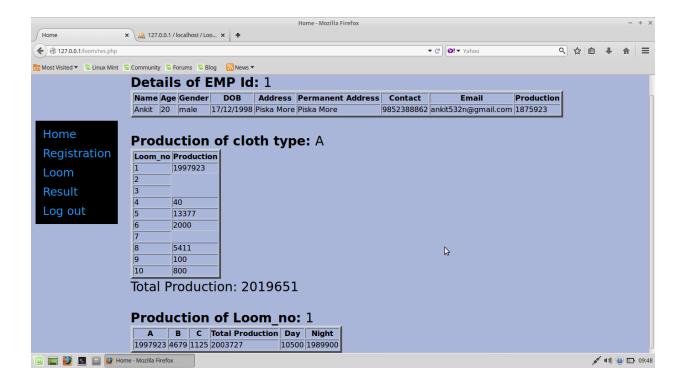
When the loom is inactive.





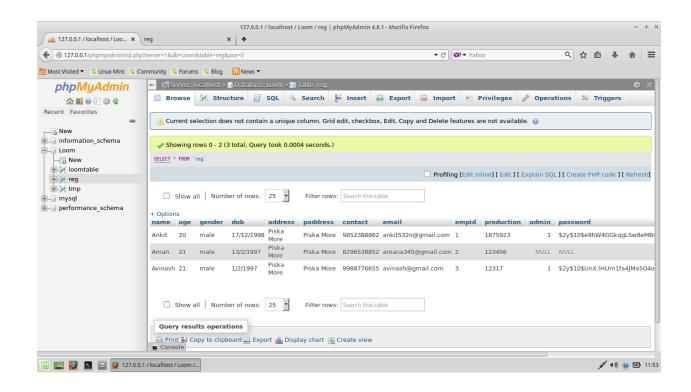
Result- where you can see the data fetched from the database.

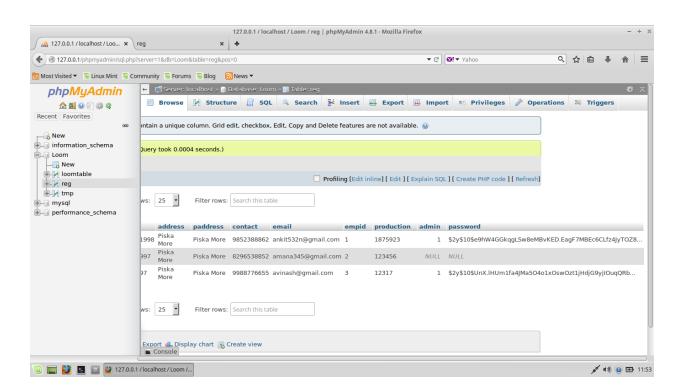




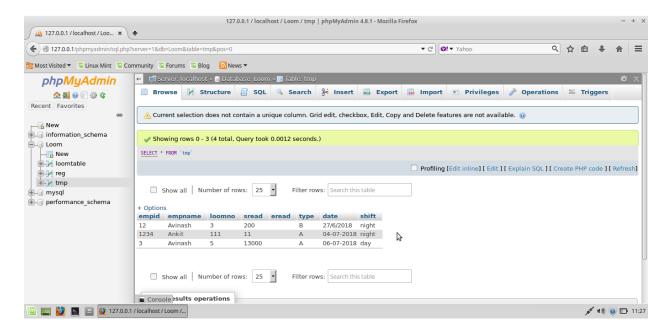
Database:

Registration table named as "reg": The data of the employees are stored in this table.

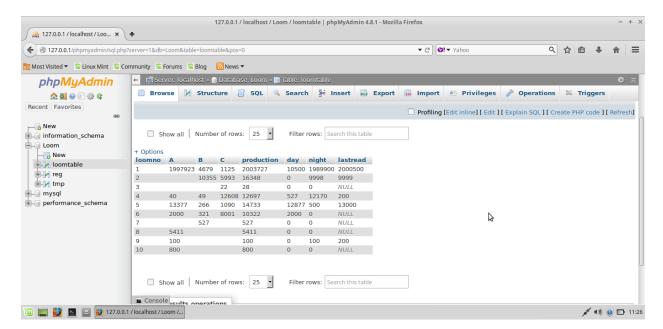




Temporary table named as "tmp": the data of the running looms is stored temporarily while loom machine is active.



Production table named as "loomtable": The data of the production of looms in terms of cloth type(A/B/C) and shift(day/night) is stored in this table after the loom has been stopped.



Codes: Code for login page: index.php: <?php session_start(); session_unset(); session_destroy(); session_start(); \$server= "127.0.0.1"; \$bduser= "root"; \$dbpass= "devilmaycry"; \$db="Loom"; \$conn= new mysqli(\$server,\$dbuser,\$dbpass,\$db); \$pempid= \$_POST['empid']; \$ppwd= \$_POST['pwd']; \$pass= password_hash(\$ppwd, PASSWORD_DEFAULT); echo \$_SESSION['messagelogin'];

\$sql="SELECT * FROM reg WHERE (admin='1' && empid=\$pempid)";

```
$res=$conn->query($sql);
if(isset($pempid,$ppwd)){
      if($res->num_rows>0){
                                                $row=$res->fetch_assoc();
                                                if($pempid==$row['empid'] &&
password_verify($ppwd,$row['password'])){
      $_SESSION['sessionid']=$row['empid'];
         //$_SESSION['messagelogin']='Logged in!';
                                                        header("Location: home.php");
                                                 }
                                                  }else{
           $_SESSION['messagelogin']='Invalid Credentials!';
                                                    header("Location: index.php");
                                                  }
}
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>loomno</title>
```

```
</head>
<body>
 <div class="sidenav">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
</div>
<div class="main">
 <h1> Login </h1><BR>
 <h6>Please log in to continue.</h6>
<form method="POST" action="index.php">
 <div class="userinput">
 <label> EMP Id : </label>
 <input type="text" name="empid" required>
 </div>
<div class="userinput">
 <label> Password : </label>
 <input type="password" name="pwd" required>
 </div>
```

<link rel="stylesheet" href="loomnostyle.css">

```
<div style="text-align:center">
 <input type="reset" name="reset">
 <input type="submit" name="submit" value="Submit">
 </div><br><br>>
</form>
</div>
</div>
</div>
</body>
</html>
Code for home page:
home.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
header("Location: index.php");
}
echo $_SESSION['messagelogin'];
$server= "127.0.0.1";
```

```
$bduser= "root";
$dbpass= "devilmaycry";
$db= "Loom";
$conn= new mysqli($server,$dbuser,$dbpass,$db);
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>Home</title>
   <link rel="stylesheet" href="homestyle.css">
</head>
<body>
 <div class="sidenav">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
```

```
<div class="main">
 <h2>Loom Management System</h2>
 A <b>loom</b> is a device used to weave cloth and tapestry.
 The basic purpose of any loom is to hold the warp threads under tension to facilitate the
interweaving of the weft threads. 
 The precise shape of the loom and its mechanics may vary, but the basic function is the
same. 
 A <b>power loom</b> is a mechanized loom, and was one of the key developments in the
industrialization of weaving during the early Industrial Revolution.
 The first power loom was designed in 1784 by Edmund Cartwright and first built in
1785.
 It was refined over the next 47 years until a design by Kenworthy and Bullough made the
operation completely automatic.
 By 1850 there was 260,000 power looms in operation in England.
 Fifty years later came the Northrop loom which replenished the shuttle when it was empty.
This replaced the Lancashire loom.
</div>
</body>
</html>
Code for employee registration page:
reg.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
```

```
header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db= "Loom";
$conn= new mysqli($server,$dbuser,$dbpass,$db);
if($conn->connect_error){
                     die("Connection failed!" . $conn->connect_error);
                     }
else
              echo "Connection success!";
       {
       }
$pname= test_input($_POST['name']);
$page= test_input($_POST['age']);
$pgender= $_POST['gender'];
$pdob= test_input($_POST['dob']);
$paddress= test_input($_POST['address']);
$ppaddress= test_input($_POST['paddress']);
$pmobile= test_input($_POST['mobile']);
$pemail= test_input($_POST['email']);
$pempid= test_input($_POST['empid']);
$padmin= $_POST['admin'];
```

```
$ppwd= password_hash($_POST['pwd'], PASSWORD_DEFAULT);
function test_input($data){
       $data = trim($data);
       $data = stripslashes($data);
       $data = htmlspecialchars($data);
       return $data;
}
$sql="INSERT INTO
reg(name,age,gender,dob,address,paddress,contact,email,empid,admin,password)
VALUES('$pname', '$page', '$pgender', '$pdob', '$paddress', '$ppaddress', '$pmobile', '$pemail', '$pem
pid', '$padmin', '$ppwd')";
if ($conn->query($sql)){
       echo "Data updated";
} else {
       echo "ERROR: " . $sql . $conn->error;
}
?>
register.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
```

```
header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db= "Loom";
$conn= new mysqli($server,$dbuser,$dbpass,$db);
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>reg</title>
   <link rel="stylesheet" href="regstyle.css">
</head>
<body>
 <div class="sidenav">
 <a href=home.php>Home</a>
```

```
<a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
 <h2>Registration Form</h2>
<form method="POST" action="reg.php">
 <h6>Employee_Id:</h6>
<div class="frm"> <input id="empid" type="text" placeholder="Enter id" name="empid"</pre>
required>
</div>
 <h6>Name:</h6>
<div class="frm"> <input id="name" type="text" placeholder="Enter Name" name="name"</pre>
required>
</div>
 <h6>Age:</h6>
<div class="frm"> <input id="age" type="text" placeholder="Enter Age" name="age" required>
</div>
  <h6>Gender:</h6>
<div class="radiotext">
  <input class="radio" type="radio" name="gender" value="male" checked> Male
 <input class="radio" type="radio" name="gender" value="female"> Female
 <input class="radio" type="radio" name="gender" value="other"> Other
 </div>
```

```
<h6>DOB:</h6>
<div class="frm"> <input id="dob" type="date" name="dob" required>
</div>
  <h6>Address:</h6>
<div class="frm"> <input id="address" type="text" placeholder="Enter Address"</pre>
name="address" required>
</div>
   <h6>Permanent Address:</h6>
<div class="frm"> <input id="paddress" type="text" placeholder="Enter Permanent Address"</pre>
name="paddress" required>
 </div>
 <h6>Contact_No:</h6>
<div class="frm"> <input id="mobileno" type="text" placeholder="Enter Mobile no "</pre>
name="mobile" required>
</div>
   <h6>Email:</h6>
<div class="frm"> <input id="email" type="text" placeholder="Enter Email Id" name="email"</pre>
required>
</div>
      <h6>Make_Admin:</h6>
<div class="radiotext">
  <input class="radio" type="radio" name="admin" value="0" checked> No
 <input class="radio" type="radio" name="admin" value="1"> Yes <input id="pwd"</pre>
type="password" placeholder="Set password" name="pwd">
 </div>
<div class="frm"> <input id="button" input type="submit" value="Submit">
```

```
</div>
 </form>
</div>
</body>
</html>
Code for loom management page:
loomno.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
 header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db="Loom";
echo $_SESSION['message'];
$conn= new mysqli($server,$dbuser,$dbpass,$db);
$ploomno= $_POST['loomno'];
```

```
$pempid= $_POST['empid'];
$_SESSION['loomno']=$ploomno;
$_SESSION['empid']=$pempid;
$sql="SELECT * FROM tmp WHERE loomno='$ploomno'";
$res=$conn->query($sql);
if(isset($ploomno)){
      if($res->num_rows>0){
 header("Location: loomstop.php");
 }else{
   echo "Loom Inactive";
   header("Location: loomstart.php");
 }
}
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>loomno</title>
   <link rel="stylesheet" href="loomnostyle.css">
```

```
</head>
<body>
 <div class="sidenay">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
        Loom Number </h1><BR>
<form method="POST" action="loomno.php">
<div class="userinput">
 <label> LOOM_No : </label>
 <input id="A" type="number" name="loomno" required>
 </div>
 <div class="userinput">
 <label> EMP Id </label>
 <input type="text" name="empid" required>
 </div>
```

```
<div style="text-align:center">
 <input type="reset" name="reset">
 <input type="submit" name="submit" value="Submit">
 </div><br><br>>
</form>
</div>
</div>
</div>
</body>
</html>
loomstart.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db="Loom";
```

```
$conn= new mysqli($server,$dbuser,$dbpass,$db);
$pempid= $_SESSION['empid'];
$pempname= $_POST['empname'];
$ploomno= $_SESSION['loomno'];
$psread= $_POST['sread'];
/*$peread= $_POST['eread'];*/
$ptype= $_POST['type'];
$pdate= $_POST['date'];
$pshift= $_POST['shift'];
if(isset($pempid)){
  $sql="SELECT name FROM reg WHERE empid=$pempid";
  $res=$conn->query($sql);
  if($res->num_rows>0){
   $row=$res->fetch_assoc();
   $name=$row['name'];
  }
if(isset($pempid)){
  $sqllast="SELECT lastread FROM loomtable WHERE loomno=$ploomno";
  $res=$conn->query($sqllast);
  if($res->num_rows>0){
   $row=$res->fetch_assoc();
   $lastread=$row['lastread'];
```

```
}
}
if(date("H")<12){
 $shift="day";
}
else {
 $shift="night";
}
if(isset($pempid,$pempname,$ploomno,$psread,$ptype,$pdate,$pshift)){
$sql="INSERT INTO tmp(empid,empname,loomno,sread,type,date,shift)
VALUES('$pempid','$pempname','$ploomno','$psread','$ptype','$pdate','$pshift')";
if ($conn->query($sql)){
 echo "Data updated";
       $_SESSION['message']='LOOM '. $ploomno . 'STARTED.';
   header("Location: loomno.php");
} else {
 echo "ERROR: " . $sql . $conn->error;
}
}
?>
```

```
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>loomstart</title>
   <link rel="stylesheet" href="loomstartstyle.css">
</head>
<body>
 <div class="sidenav">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
 <h1>
       LOOM MANAGMENT </h1><BR>
<form method="POST" action="loomstart.php">
 <br/>div class="userinput">
```

```
< label > EMP Id </ label >
 <input type="text" name="empid" value="<?php echo $pempid; ?>" required>
 </div>
<div class="userinput">
 < label > EMP Name < / label >
 <input type="text" name="empname" value="<?php echo $name; ?>" required>
 </div>
<div class="userinput">
 <label> LOOM_No </label>
 <input id="A" type="number" name="loomno" value="<?php echo $ploomno; ?>" readonly>
 </div>
<div class="userinput">
 <label> Start Reading </label>
 <input type="number" name="sread" value="<?php echo $lastread; ?>" required>
 </div>
<div class="userinput">
 <label> Type </label>
  <select name="type" required>
 <option value="A">A</option>
 <option value="B">B</option>
 <option value="C">C</option>
</select>
 </div>
<div class="userinput">
 <label>Date</label>
```

```
<input type="date" name="date" value="<?php echo date("d-m-Y"); ?>" required>
 </div>
<div class="userinput">
 <label>Shift</label>
 <input type="text" name="shift" value="<?php echo $shift; ?>" required>
 </div>
 <div style="text-align:center">
 <input type="reset" name="reset">
 <input type="submit" name="submit" value="Submit">
 </div><br><br>>
</form>
</div>
</div>
</div>
</body>
</html>
loomstop.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
```

```
header("Location: index.php");
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db= "Loom";
$flag=0;
$conn= new mysqli($server,$dbuser,$dbpass,$db);
$ploomno= $_SESSION['loomno'];
$sql="SELECT * FROM tmp WHERE loomno='$ploomno'";
$res=$conn->query($sql);
if($res->num_rows>0){
       while($row=$res->fetch_assoc()){
              //echo "<br/>-". "Name:".$row['empid'] . $row['empname'] . $row['loomno'] .
$row['sread'] . $row['eread'] . $row['type'] . $row['date'] . $row['shift'] ."<br>";
              $pempid= $row['empid'];
              $pempname= $row['empname'];
              $psread= $row['sread'];
              $ptype= $row['type'];
              $pdate= $row['date'];
```

```
$pshift= $row['shift'];
       }
}
$peread= $_POST['eread'];
if($peread<$psread){</pre>
  echo "Please check end reading!";
}
else
    if($peread!=0){
              $sql="UPDATE tmp SET eread=$peread WHERE loomno=$ploomno ";
              if ($conn->query($sql)){
              $flag=1;
              echo "Data updated!";
     else {
}
              $flag=0;
              echo "ERROR: " . $sql . $conn->error;
}
}
if($flag==1)
 $prod=$peread-$psread;
```

```
$type=$ptype;
 $shift=$pshift;
 $$q13="UPDATE loomtable SET production=production + $prod, $type= $type +
$prod,$shift=$shift + $prod,lastread=$peread WHERE loomno=$ploomno ";
 if ($conn->query($sql3)){
 echo "Updated Production!";
  $$q14="UPDATE reg SET production=production + $prod WHERE empid=$pempid";
   if ($conn->query($sql4)){
   echo "Updated Employee!";
   echo $pempid;
       $sql5=" DELETE FROM tmp WHERE loomno=$ploomno ";
   if ($conn->query($sql5)){
   $_SESSION['message']='LOOM '. $ploomno . 'CLOSED.';
   //echo $_SESSION['message'];
   header("Location: loomno.php");
   }
   }else {
    echo "ERROR: " . $sql4 . $conn->error;
   }
}
```

```
}
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>loomstop</title>
   <link rel="stylesheet" href="loomstopstyle.css">
</head>
<body>
 <div class="sidenay">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
 <h1>
        LOOM MANAGMENT </h1><BR>
<form method="POST" action="loomstop.php">
```

```
<br/>div class="userinput">
 <label> EMP Id : </label>
 <?php echo "$pempid"; ?>
 </div>
<div class="userinput">
 <label> EMP Name : </label>
 <?php echo "$pempname"; ?>
 </div>
<div class="userinput">
 <label> LOOM_No : </label>
 <input id="A" type="number" name="loomno" value="<?php echo $ploomno; ?>" readonly>
 </div>
<div class="userinput">
 <label> Start Reading : </label>
 <?php echo "$psread"; ?>
 </div>
<div class="userinput">
 <label> End Reading : </label>
 <input type="number" name="eread" value="0" >
 </div>
<div class="userinput">
 <label> Type : </label>
 <?php echo "$ptype"; ?>
 </div>
```

```
<div class="userinput">
 <label>Date : </label>
 <?php echo "$pdate"; ?>
 </div>
<div class="userinput">
 <label>Shift: </label>
 <?php echo "$pshift"; ?>
 </div>
 <div style="text-align:center">
 <input type="reset" name="reset">
 <input type="submit" name="submit" value="Submit">
 </div><br><br>>
</form>
</div>
</div>
</div>
</body>
</html>
```

Code for result page:

res.php:

```
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
       header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db= "Loom";
$conn= new mysqli($server,$dbuser,$dbpass,$db);
$pempid= test_input($_POST['empid']);
$ptype= test_input($_POST['type']);
$ploomno= test_input($_POST['loomno']);
function test_input($data){
       $data = trim($data);
       $data = stripslashes($data);
       $data = htmlspecialchars($data);
       return $data;
}
```

```
if(isset($pempid)){
     $sql="SELECT * FROM reg WHERE empid='$pempid' ";
$res=$conn->query($sql);
if($res->num_rows>0){
               echo '<div class="main">' . "<br>"."<b>Details of EMP Id: </b>".
$pempid;
               echo '
                              Name
                              <th>Age</th>
                              Gender
                              DOB
                              Address
                              Permanent Address
                              Contact
                              Email
                              Production
                              ';
     while($row=$res->fetch_assoc()){
                              echo '
                              '.$row['name'].'
                              '.$row["age"].'
```

```
'.$row["gender"].'
                                   <td>'.$row["dob"].'
                                   '.$row["address"].'
                                   '.$row["paddress"].'
                                   '.$row["contact"].'
                                   '.$row["email"].'
                                   '.$row["production"].'
                                   ';
      }
                             echo '';
                             echo '</div>';
}
else
{
     echo "No results found!";
}
}
if(isset($ptype)){
           $sql="SELECT loomno, $ptype FROM loomtable ";
           $res=$conn->query($sql);
           if($res->num_rows>0){
```

```
echo '<div class="main">' . "<br>"."<b>Production of cloth type: </b>".
$ptype;
                  echo '
                                    Loom_no
                                    Production
                                    ';
                  while($row=$res->fetch_assoc()){
                                    echo '
                                    <td>'.$row['loomno'].'</td>
                                    '.$row["$ptype"].'
                                    ';
                        $sumtype=$sumtype + $row["$ptype"];
                  }
                              echo '';
           echo " Total Production: " .$sumtype. " <br>";
                              echo '</div>';
            }else{
                  echo "No results found!";
```

```
}
} else {
     echo "enter data";
}
if(isset($ploomno)){
     $sql="SELECT * FROM loomtable WHERE loomno='$ploomno' ";
$res=$conn->query($sql);
if($res->num_rows>0){
               echo '<div class="main">' . "<br>"."<b>Production of Loom_no: </b>".
$ploomno;
                          echo '
                                ABCTotal
ProductionDayNight
                                ';
     while($row=$res->fetch_assoc()){
                          echo '
                                '.$row['A'].'
                                '.$row['B'].'
```

```
'.$row['C'].'
                                     '.$row['production'].'
                                     '.$row['day'].'
                                     '.$row['night'].'
                                     ';
      }
                               echo '';
                               echo '</div>';
}
else
{
      echo "No results found!";
}
}
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>Home</title>
   <link rel="stylesheet" href="homestyle.css">
</head>
<body>
 <div class="sidenav">
```

```
<a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
</div>
</body>
</html>
result.php:
<?php
session_start();
if (!isset($_SESSION['sessionid'])){
header("Location: index.php");
}
$server= "127.0.0.1";
$bduser= "root";
$dbpass= "devilmaycry";
$db="Loom";
$conn= new mysqli($server,$dbuser,$dbpass,$db);
```

```
?>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>res</title>
   <link rel="stylesheet" href="resstyle.css">
</head>
<body>
 <div class="sidenay">
 <a href=home.php>Home</a>
 <a href=register.php>Registration</a>
 <a href=loomno.php>Loom</a>
 <a href=result.php>Result</a>
 <a href=index.php>Log out</a>
</div>
<div class="main">
 <h2>Result</h2>
<form method="POST" action="res.php">
 <br/>div class="userinput">
 <label> EMP Id </label>
 <input type="text" name="empid">
 </div>
<div class="userinput">
```

```
<label> Type </label>
 <input type="text" name="type" placeholder="A/B/C">
 </div>
<div class="userinput">
 <label> LOOM_No </label>
 <input id="A" type="number" name="loomno">
 </div>
 <div style="text-align:center">
 <input type="reset" name="reset">
 <input type="submit" name="submit" value="Submit">
 </div><br><br>>
</form>
</div>
</body>
</html>
CSS code for style:
All the pages have almost the same style as "homestyle.css".
homestyle.css:
body {
  font-family: "Lato", sans-serif;
  background-color: #AAB6D9;
```

```
}
h2{
 text-align: center;
}
.sidenav {
  width: 180px;
  position: fixed;
  z-index: 1;
  top: 100px;
  left: 10px;
  background: black;
  overflow-x: hidden;
  padding: 8px 0;
}
.sidenav a {
  padding: 6px 8px 6px 16px;
  text-decoration: none;
  font-size: 25px;
  color: #2196F3;
  display: block;
}
.sidenav a:hover {
  color: #064579;
```

```
}
.main {
    margin-left: 200px;
    font-size: 28px;
    padding: 0px 10px;
}
```

Security:

}

Data validation:

Code for data validation:

```
function test_input($data){
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
```

The function "test input(\$data)" is used to establish data valdation.

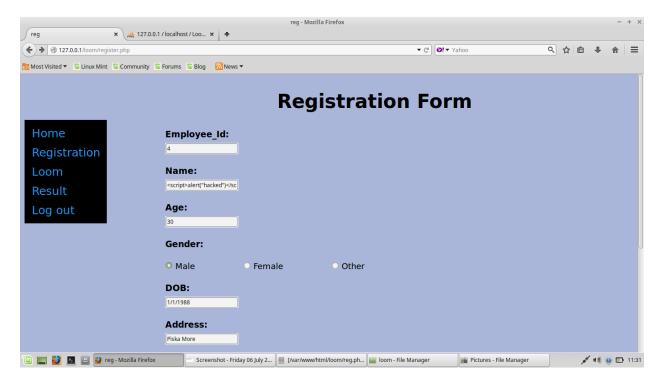
The function "trim(\$data)" removes the spaces.

The function "stripslashes(\$data)" strips off slashes.

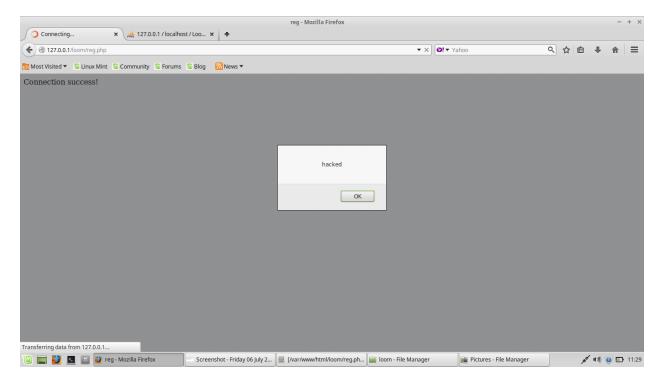
The function "htmlspecialchars(\$data)" replaces html characters such as <,>,(,),',".

For example: "<" is replaced by "<" and ">" is replaced by ">" so that it does not execute any script if present.

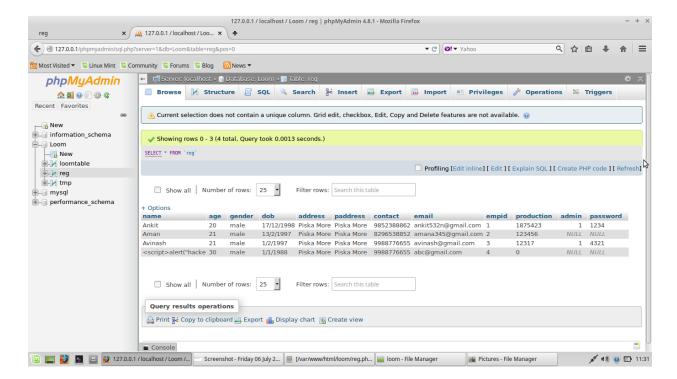
If data validation is not done:



Any one can run a script to attack the system as shown below a simple script is run in the name section and an alert message showing "hacked" opens up.



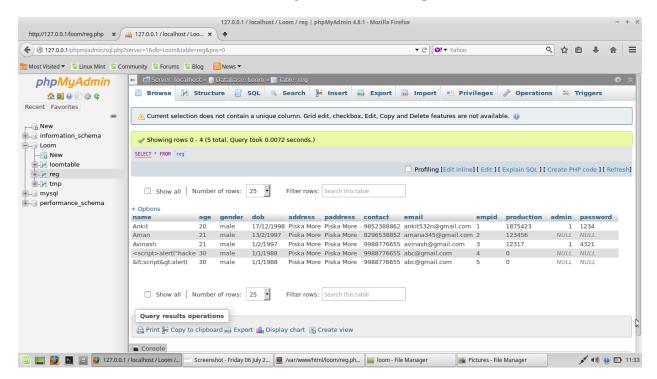
And the database gets affected as the script can be run whenever a query is executed.



To avoid all these problems we use data validation.

If data validation is not done no script can be run by anyone.

If data validation is used: no alert message comes as no script can be run.



In the above screenshot the data with empid=4 is without data validation and the data with empid=5 is with data validation.

Password Hashing:

Code for password hashing:

\$pass= password_hash(\$ppwd, PASSWORD_DEFAULT);

The inbuilt Php function "password hash(p1,p2)" is used to establish password hashing.

This function converts the value of p1 to its hash value according to the hash type i.e. p2.

Password hashing is used to make the password secure. The hash value of the password is stored in the database instead of the exact password such that no other user can know the password expect for the user it belongs to.

The inbuilt Php function "password_verify(\$ppwd,\$row['password'])" is used to verify the password entered during login is same as the hash value of the password existing in the database. Here \$ppwd is the password entered in the login form and \$row['password'] is the password existing in the database.

The following shows the database with password hashing:

