APPENDIX A

SOURCE CODE LISTING

This appendix describes the source code for implementation of the Physician-Patient Portal. The implementation includes registration and login for patients and physicians, searching for a specific physician from the database and making an appointment with the physician. This Appendix also lists the source code for implementing user interfaces and the functionality in the back end. For each section, there is a corresponding figure shown.

A.1 Physician-Patient Homepage

Figure A.1 Physician-Patient Homepage

```html
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Beauty and Health Hospital Home Page </title>

<style>

    p {

      TEXT-ALIGN: center;

    }

    form {

      text-align:center; float:left; position:relative;left:250px

    }


<!--div {text-align:center; float:left; position:relative;left:300px;} -->

</style>

</head>

<body bgcolor="pink">

<br />

<br />

<h2>

<p style="color:blue; padding:20px; ">Military General Hospital of Beijing </p>

</h2>

<form method="post" action="PatientPage.html">

<button type="submit" style="height: 100px; width: 350px">I am a patient</button>
```

```html
</form>

<form method="post" action="doctorPage.html">

<button type="submit" style="height: 100px; width: 350px">I am a doctor</button>

</form>

<!--

<p style="color:yellow;">Beautiful smile  Good service</p>

<p style="font-size: 20pt; color: deepskyblue;text-align:center"> Happy working

everyday.

</p>

<div style="text-align:center;"><img src="starbucks.jpg" width="300" height="300">

</p>


<p> hospital registration system </p>

<br />

</div-->

<div>

<p>

<img src="HomePageHospital1.jpg"  alt="HospitalHomePage" width="650"

height="500" />

</p>

</div>

</body>

</html>
```

A.2 Doctor's User Interface

Figure A.2 Doctor's User Interface
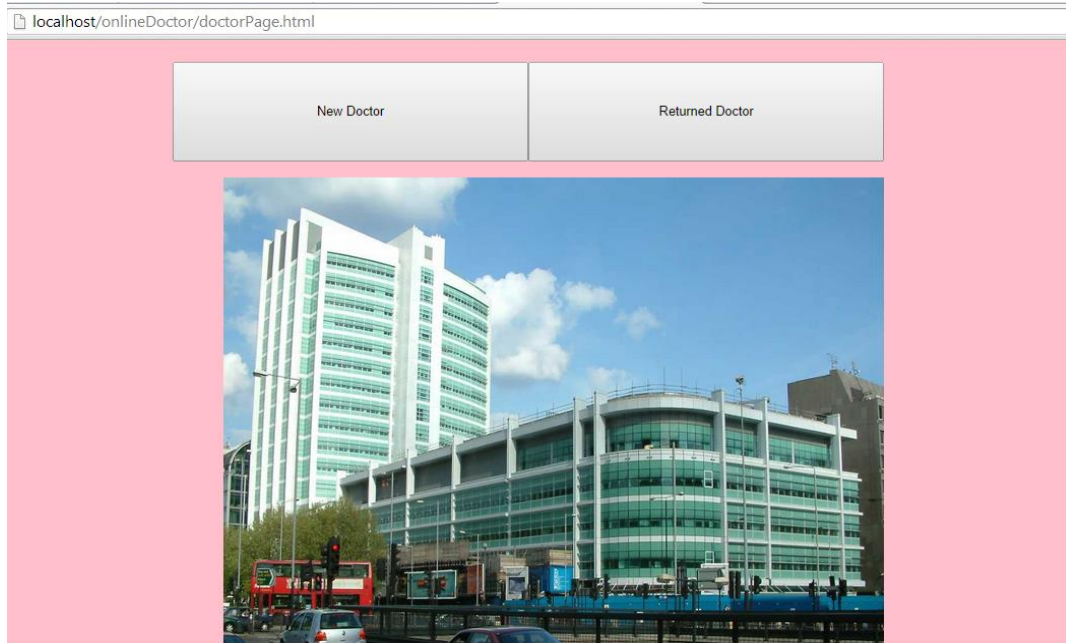
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Doctor Home Page </title>

<style>

    p {

        TEXT-ALIGN: center;

    }

    form {

        text-align:center; float:left; position:relative;left:250px

    }

```
<!--div {text-align:center; float:left; position:relative;left:300px;} -->

</style>

</head>

<body bgcolor="pink">

<br />

<br />

<h2>

<p style="color:blue; padding:20px; ">Military General Hospital of Beijing </p>

</h2>

<form method="post" action="doctorRegister.html">

<button type="submit" style="height: 100px; width: 350px">New Doctor </button>

</form>

<form method="post" action="doctorReturn.html">

<button type="submit" style="height: 100px; width: 350px">Returned Doctor</button>

</form>

<div>

<p>

<img src="Doctor.jpg"  alt="DoctorHomePage" width="650" height="500" />

</p>

</div>

</body>

</html>
```
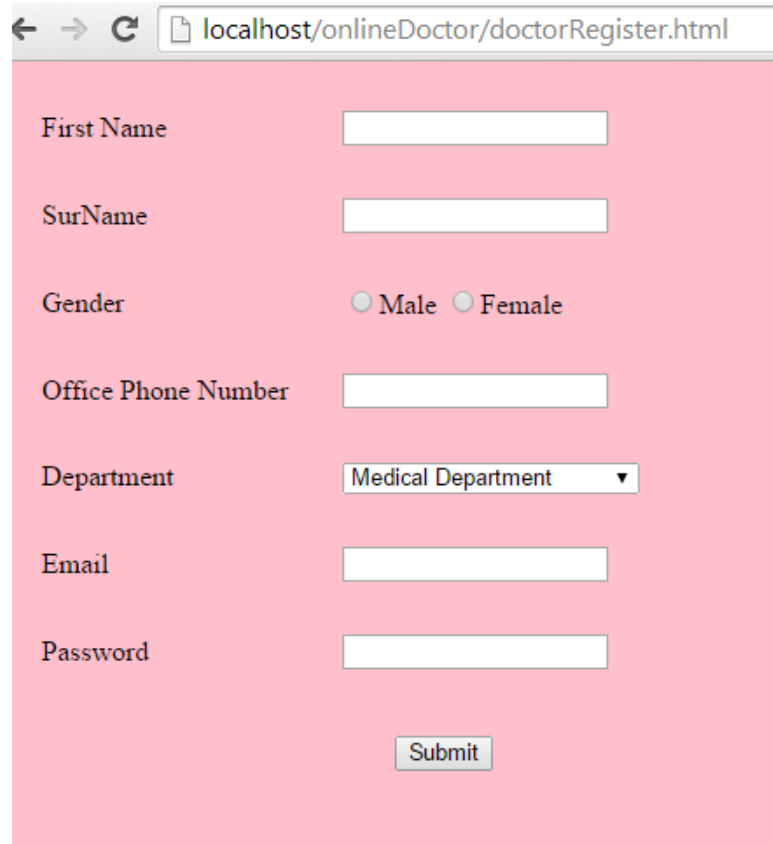
A.3 Doctor's Registration Interface

Figure A.3 Doctor's Registration Interface

<!DOCTYPE html>

<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>Submit Page</title>

</head>

<body bgcolor="pink">

<form method="post" action="doctorRecord.php">

```
<table cellspacing="10" cellpadding="10">

        <tr>

                <td>First Name</td>

                <td><input type="text" name="FirstName" /></td>

</tr>

<tr>

                <td>SurName</td>

                <td><input type="text" name="LastName" /></td>

</tr>

<tr>

<td>Gender</td>

<td>

<input type="radio" name="Gender" value="male">Male

<input type="radio" name="Gender" value="female">Female

</td>

</tr>

<tr>

                <td>Office Phone Number </td>

                <td><input type="text" name="OfficePhone" /></td>

</tr>

        <tr>

                <td>Department</td>
```

```html
<td><select name ="Department">

<option value="Medical Department">Medical Department</option>

<option value="Surgical Department">Surgical Department</option>

<option value="Orthopedics Department">Orthopedics Department</option>

<option value="E.N.T.department">E.N.T.department</option>

</select>

</td>

</tr>

<tr>

                    <td>Email</td>

                    <td><input type="text" name="Email" /></td>

</tr>

              <tr>

                    <td>Password</td>

                    <td><input type="password" name="Password" /></td>

              </tr>

      </table>

<br />


<span style="display:block; width:500px; text-align:center">

<input type="submit" name="Request" value="Submit" style="text-align:center;" />

</span>

</form>
```
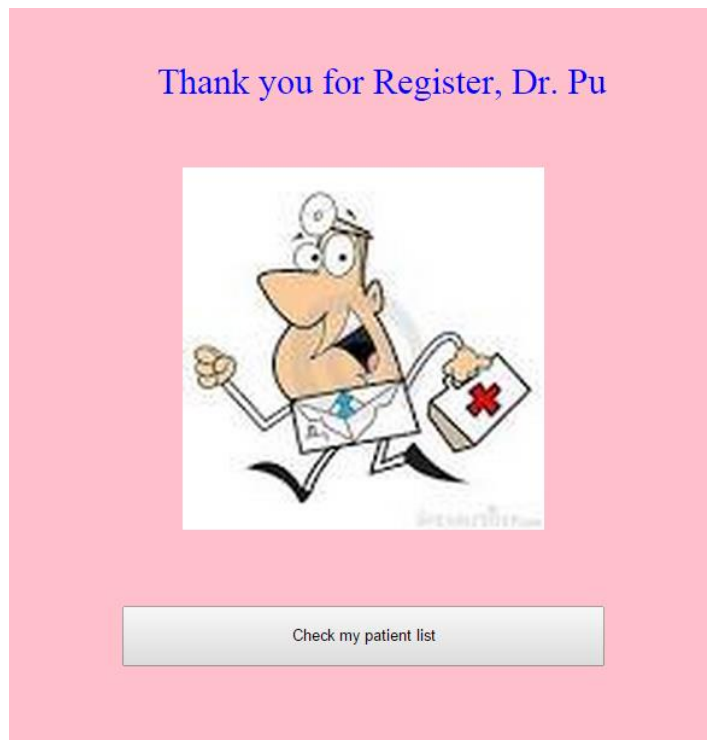
</body>

</html>

A.4 Doctor Creates a Record in the Database

Figure A.4 Doctor Creates a Record in the Database

<html>

<head>

<style>

div{color:blue}

</style>

</head>

<body bgcolor="pink">

```php
<br><br>

<div style="text-align:center; font-size:30px;">

<?php

$host="localhost";

$user="root";

$pass="";

$dbname="online_doctor";

$var_FirstName = $_POST['FirstName'];

$var_LastName = $_POST['LastName'];

$var_Gender = $_POST['Gender'];

$var_OfficePhone = $_POST['OfficePhone'];

$var_Department = $_POST['Department'];

$var_Email = $_POST['Email'];

$var_Password = $_POST['Password'];

$con = mysql_connect($host,$user,$pass);

$db=mysql_select_db($dbname,$con);

$query=null;

$result=null;

$query="INSERT INTO doctor(FirstName,

LastName,Gender,OfficePhone,Department,Email,Password)

VALUES('$var_FirstName','$var_LastName','$var_Gender','$var_OfficePhone','$var_De

partment','$var_Email','$var_Password')";
```

```php
$result=mysql_query($query);

echo "     Thank you for Register, Dr. $var_LastName";

$FirstName= '$var_FirstName';

mysql_close();

?>
</div>

<br><br><br>

<div style="text-align:center;"><img src="doctorimage.jpg" width="300" height="300">

</div>

<br><br>

<div style="font-size:150%;color:black">

<center>

<form method="post" action="myPatientList.php">

<br>

<input type= "hidden" name= "doctorFirstName" value = "<?php echo $FirstName; ?>"/>

<span style="display:block; width:800px; text-align:center">

<input type="submit" style="height:50px; width:400px;" name="Request" value="Check

my patient list" style="text-align:center"; />

</span>

                </form>

</p>

</center>

</div>
```
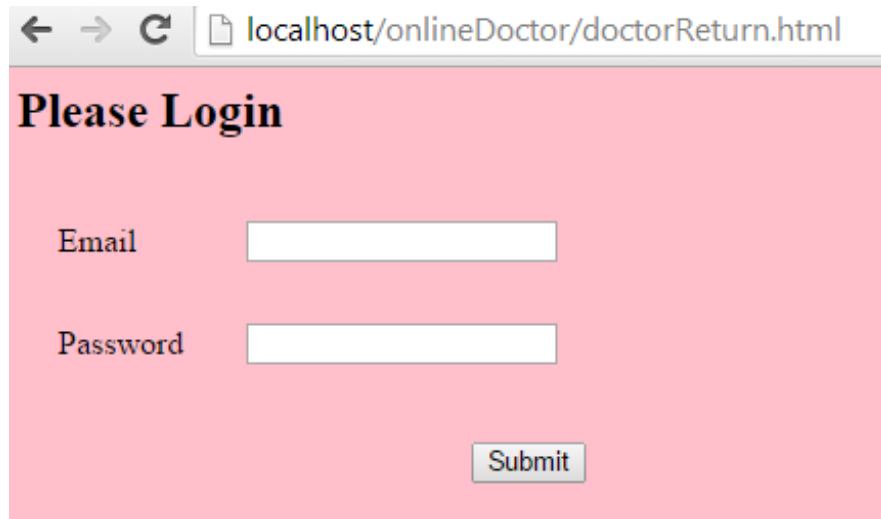
</body>

</html>

A.5 Login as Returned Doctor

Figure A.5 Login as Returned Doctor

<!DOCTYPE>

<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>Submit Page</title>

</head>

<body bgcolor="pink">

<h2>Please Login</h2>

<form method="post" action="returnedDoctor.php">

    <table cellspacing="10" cellpadding="10">

```
<tr>

                <td>Email</td>

                <td><input type="text" name="Email" /></td>

</tr>

<tr>

                <td>Password</td>

                <td><input type="password" name="password" /></td>

</tr>

</table>

<br />

<span style="display:block; width:500px; text-align:center">

<input type="submit" name="Request" value="Submit" style="text-align:center;" />

</span>

        </form>

</body>

</html>
```

A.6 Returned Doctor Logins Successfully

```
<html>

<head>

<style>

 input

 {
```

```
  font-size:25px;

 }

 td

 {

  font-size:25px;

 }
```
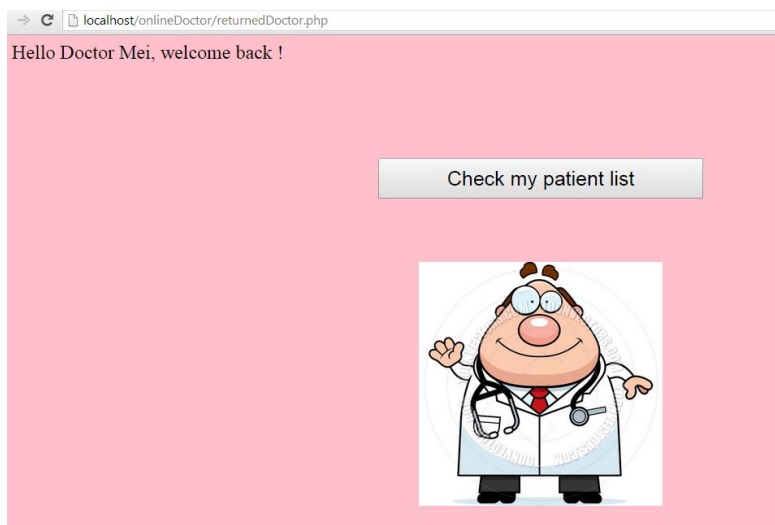
A.6 Returned Doctor Logins Successfully

Figure A.6 Returned Doctor Logins Successfully

```
</style>

</head>

<body bgcolor="pink" style="font-size:150%">

<?php

        $host = "localhost";

   $user = "root";
```

```php
$pass = "";

$dbname = "online_doctor";

$var_Email = $_POST['Email'];

$var_Password = $_POST['password'];

$connection = mysql_connect($host,$user,$pass);

if(!$connection) echo "Could not open connection to host!";

$db = mysql_select_db($dbname,$connection);

if(!$db) echo "Database selection failed!";

$query = null;

$result = null;

$query = "select * from doctor n where ((n.Email = '$var_Email')&&(n.Password
='$var_Password'))";

        $result = mysql_query($query);

        $num = mysql_numrows($result);

        if($num<1) {

    echo "<script>alert('sorry, you provided wrong information, please try again');

history.go(-1);</script>";

}

else {

    $i=0;

    echo "<table cellpadding=\"0\" cellspacing=\"10\">";

    while($i < $num) {

        $FirstName = mysql_result($result,$i, "FirstName");
```

```php
$LastName = mysql_result($result,$i, "LastName");

        echo "<tr>    Hello Doctor $LastName, welcome

back !</tr>"; $i++;}

   echo "</table>";

   if($num = 0) echo "No results.";

        }

        mysql_close();

?>
```

```html
<br><br>

<div style="font-size:150%;color:black">

<center>

<form method="post" action="myPatientList.php">

<br>

<input type= "hidden" name= "doctorFirstName" value = "<?php echo $FirstName; ?>"/>

<span style="display:block; width:800px; text-align:center">

<input type="submit" style="height:50px; width:400px;" name="Request" value="Check

my patient list" style="text-align:center"; />

</span>

        </form>

        <br>

                <div style="text-align:center;"><img src="doctorMark.jpg" width="300"

height="300">

</p>
```

```
</div>

</center>

</div>

</body>

</html>
```

A.7 Doctor Checks His/Her Patient List

Figure A.7 Doctor Checks His/Her Patient List

```
<html>

<head>

<style>

 input

 {

   font-size:20px;

 }
```

```
   td

    {

     font-size:20px;

    }

    h2

    {

     color:Blue;

    }

   body { font-size: 20px;}

</style>

<body bgcolor="pink" style="font-size:150%">

<br><br><br>

<center>

<h2>MY Patient List</h2>

<br>

<br>

<?php

$var_doctorFN=$_POST['doctorFirstName'];

$host="localhost";

$user="root";

$pass="";

$dbname="online_doctor";

$con = mysql_connect($host,$user,$pass);
```

```php
$db=mysql_select_db($dbname,$con);

$query=null;

$result=null;

$query="SELECT * FROM patient_doctor_appointment where

doctorFirstName='$var_doctorFN'";

$result=mysql_query($query);

while($row = mysql_fetch_array($result))

{

 echo $row['patientFirstName'];

 //$a= $row['FirstName'];

 echo "  |  ";

 echo $row['patientLastName'];

 //$b= $row['LastName'];

 echo "  |  ";

 echo $row['Date'];

// $c= $row['Gender'];

 echo "  |  ";

 echo $row['Time'];

 echo "  |  ";

 echo "<br/>";

 echo "<br/>";

 }

mysql_close();
```

?>

</center>

</body>

</html>

A.8 Patient User Interface

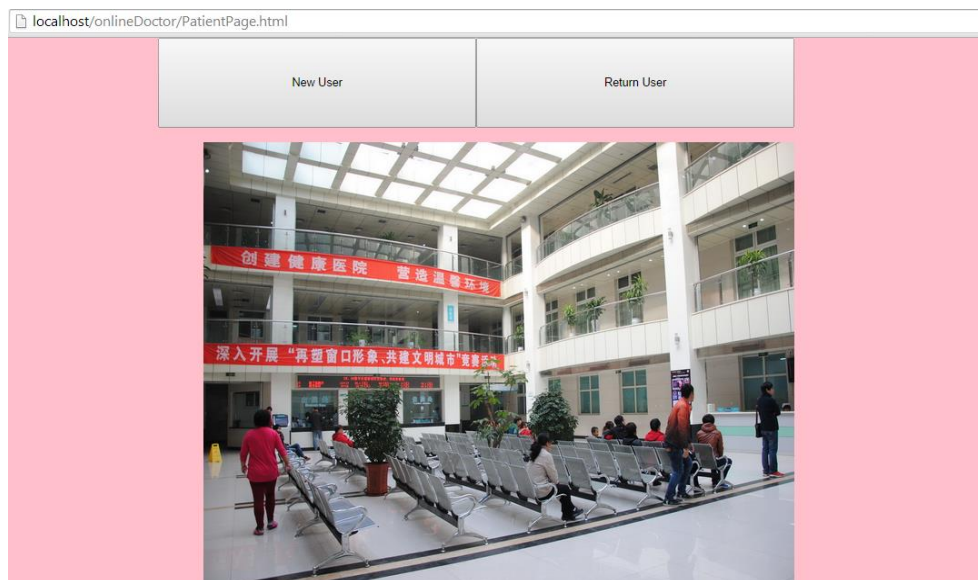Figure A.8 Patient User Interface

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Patient Home Page </title>

<style>

    p {

        TEXT-ALIGN: center;
```

```
        }

        form {

            text-align:center; float:left; position:relative;left:250px

        }

</style>

</head>

<body bgcolor="pink">

<br /><br />

<h2>

<p style="color:blue; padding:20px; ">Military General Hospital of Beijing </p>

</h2>

<form method="post" action="HTMLPage2Submit.html">

<button type="submit" style="height: 100px; width: 350px">New User </button>

</form>

<form method="post" action="returnUser.php">

<button type="submit" style="height: 100px; width: 350px">Return User </button>

</form>

<div>

<p>

<img src="Patient.jpg"  alt="PatientHomePage" width="650" height="500" />

</p>

</div>

</body>
```
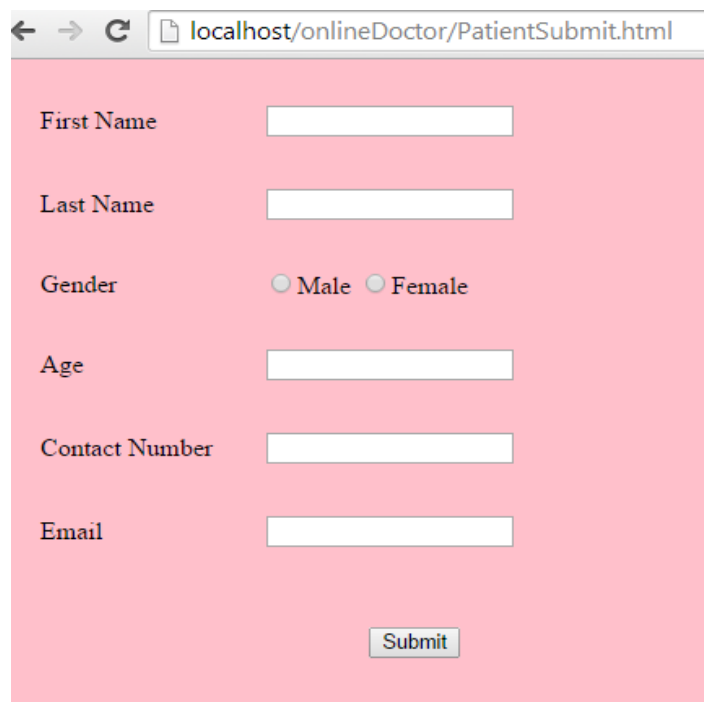
</html>

A.9 Patient Registration Page

<!DOCTYPE html>

<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>Submit Page</title>

Figure A.9 Patient Registration Page

</head>

<body bgcolor="pink">

```html
<form method="post" action="PatientRecord.php">

        <table cellspacing="10" cellpadding="10">

            <tr>

                    <td>First Name</td>

                    <td><input type="text" name="FirstName" /></td>

</tr>

<tr>

                    <td>SurName</td>

                    <td><input type="text" name="LastName" /></td>

</tr>

<tr>

<td>Gender</td>

<td>

<input type="radio" name="Gender" value="male">Male

<input type="radio" name="Gender" value="female">Female

</td>

            </tr>

<tr>

                    <td>Age</td>

                    <td><input type="text" name="Age" /></td>

</tr>

<tr>

                    <td>Contact Number</td>
```

```html
<td><input type="text" name="ContactNumber" /></td>

</tr>

<tr>

<td>Email</td>

<td><input type="text" name="Email" /></td>

</tr>

<tr>

<td>Department</td>

<td><select name ="Department">

<option value="Medical Department">Medical Department</option>

<option value="Surgical Department">Surgical Department</option>

<option value="Orthopedics Department">Orthopedics Department</option>

<option value="E.N.T.department">E.N.T.department</option>

</select>

</td>

</tr>

</table>

<br />

<span style="display:block; width:500px; text-align:center">

<input type="submit" name="Request" value="Submit" style="text-align:center;" />

</span>

</form>

</body>
```

</html>

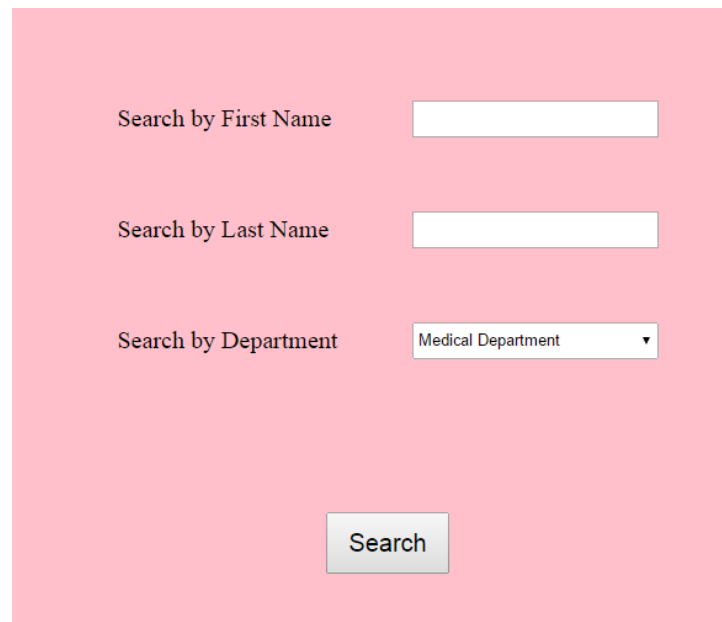A.10 Patient Creates a Record and Searches for Doctors

<html>

<head>

<style>

 input

 {

   font-size:20px;

 }

Figure A.10 Patient Creates a Record and Searches for Doctors

td

 {

   font-size:20px;

```php
 }

</style>

<body bgcolor="pink" style="font-size:150%">

<?php

$host="localhost";

$user="root";

$pass="";

$dbname="online_doctor";


$var_FirstName = $_POST['FirstName'];

$var_LastName = $_POST['LastName'];

$var_Gender = $_POST['Gender'];

$var_Age = $_POST['Age'];

$var_ContactNumber = $_POST['ContactNumber'];

$var_Email = $_POST['Email'];

$var_Department = $_POST['Department'];

$var_patientFirstName = $_POST['FirstName'];

$var_patientLastName = $_POST['LastName'];


$con = mysql_connect($host,$user,$pass);

$db=mysql_select_db($dbname,$con);

$query=null;

$result=null;
```

```php
$query="INSERT INTO patient(FirstName,

LastName,Gender,Age,ContactNumber,Email,Department)

VALUES('$var_FirstName','$var_LastName','$var_Gender','$var_Age','$var_ContactNu

mber','$var_Email','$var_Department')";

$result=mysql_query($query);


echo "registered successfully";

mysql_close();

?>
```

```html
<br><br><br>

<center>

<div style="font-size:150%;color:black">

        <form method="post" action="testPatientSearhdoctor.php">

        <input type= "hidden" name= "patientFirstName" value = "<?php echo

$var_patientFirstName; ?>"/>

        <input type= "hidden" name= "patientLastName" value = "<?php echo

$var_patientLastName; ?>"/>

        <table  cellspacing="20" cellpadding="20">

                        <td>Search by First Name</td>

        <td><input style="height:30px; width:200px;" type="text" name="FirstName"

/></td>

</tr>

<tr>
```

```
                    <td>Search by Last Name</td>

                    <td><input style="height:30px; width:200px;" type="text"

name="LastName" /></td>

</tr>

        <tr>

                    <td>Search by Department</td>

<td>

                    <select style="height:30px; width:200px;" name ="Department">

<option value="Medical Department">Medical Department </option>

<option value="Surgical Department">Surgical Department </option>

<option value="Orthopaedics Department">Orthopaedics Department </option>

<option value="E.N.T.department">E.N.T.department </option>

</select>

</td>

</tr>

</table>

<br><br>

<span style="display:block; width:500px; text-align:center">

<input type="submit" style="height:50px; width:100px;" name="Request"

value="Search" style="text-align:center"; />

</span>

</form>

</div>
```

</center>

</body>

</html>

A.11 Returned Patient Login

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Please login : </title>

Figure A.11 Returned Patient Login

<style>

td{

```
font-size:20px;

}

input{

font-size:20px;

}

</style>

</head>

<body bgcolor="pink">

<h2> Please login </h2>

<form method="post" action="returnPatientLogin.php">

        <table cellspacing="10" cellpadding="10">

                <tr>

                        <td>Contact number: </td>

                        <td><input type="text" name="ContactNumber" /></td>

                </tr>

                <tr>

                        <td>Email: </td>

                        <td><input type="text" name="Email" /></td>

                </tr>

        </table>

<br>

        <span style="margin-left:20px"></span><input type="submit" name="Request"

value="Login" />
```
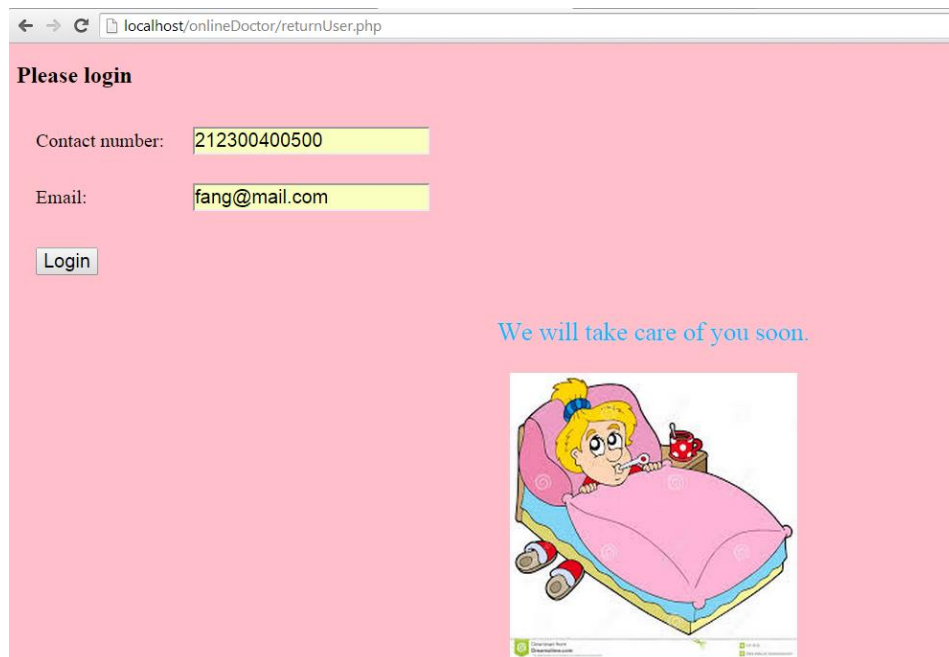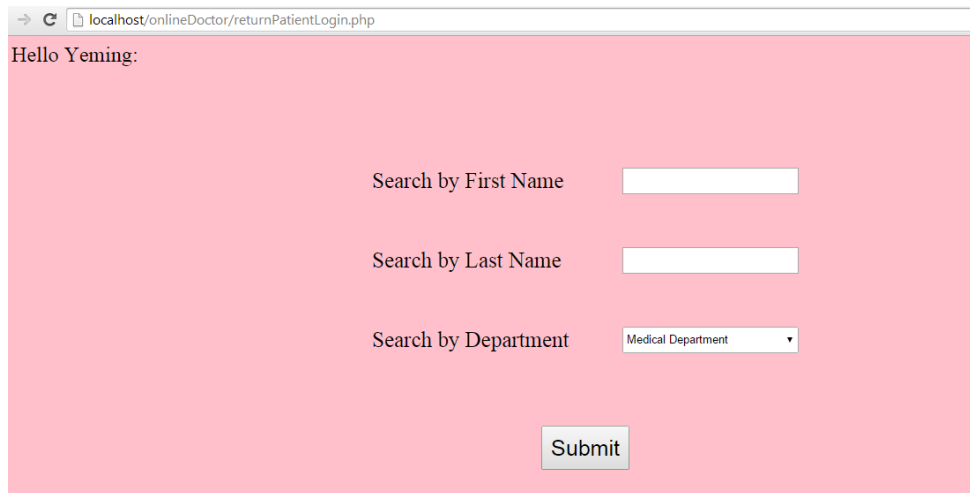
</form>

<p style="font-size: 20pt; color: deepskyblue;text-align:center">We will take care of you

soon.

</p>

<p>

<div style="text-align:center;"><img src="patientReturn.jpg" width="300" height="300">

</p>

</div>

</body>

</html>

A.12 Returned User Login

Figure A.12 Returned User Login

<html>

```
<head>

<style>

 input

 {

  font-size:25px;

 }

 td

 {

  font-size:25px;

 }

</style>

</head>


<body bgcolor="pink" style="font-size:150%">

<?php

        $host = "localhost";

   $user = "root";

   $pass = "";

   $dbname = "online_doctor";

   $var_ContactNumber = $_POST['ContactNumber'];

   $var_Email = $_POST['Email'];

   $connection = mysql_connect($host,$user,$pass);

   if(!$connection) echo "Could not open connection to host!";
```

```php
$db = mysql_select_db($dbname,$connection);

if(!$db) echo "Database selection failed!";

$query = null;

$result = null;

$query = "select * from patient m where ((m.ContactNumber =
'$var_ContactNumber')&&(m.Email ='$var_Email'))";

$result = mysql_query($query);

$num = mysql_numrows($result);

        if($num<1) {


    echo "<script>alert('sorry, you provided wrong information, please try again');
history.go(-1);</script>";

}
else {

    $i=0;

    echo "<table cellpadding=\"0\" cellspacing=\"10\">";

    while($i < $num) {


                $FirstName = mysql_result($result,$i, "FirstName");

                $LastName = mysql_result($result,$i, "LastName");

        echo "<tr>    Hello $FirstName: </tr>"; $i++;}

    echo "</table>";
```

```php
    if($num = 0) echo "No results.";

        }

        mysql_close();
?>
```

```html
<br><br>
<div style="font-size:150%;color:black">


<center>
<form method="post" action="testPatientSearhdoctor.php">

        <input type= "hidden" name= "patientFirstName" value = "<?php echo
$FirstName; ?>"/>

        <input type="hidden" name="patientLastName" value = "<?php echo
$LastName; ?>" />

        <table  cellspacing="20" cellpadding="20">

                <td>Search by First Name</td>

                <td><input style="height:30px; width:200px;" type="text"
name="FirstName" /></td>
</tr>
<tr>

                <td>Search by Last Name</td>

                <td><input style="height:30px; width:200px;" type="text"
name="LastName" /></td>
```

```
</tr>

        <tr>

                        <td>Search by Department</td>

<td>

                        <select style="height:30px; width:200px;" name ="Department">

<option value="Medical Department">Medical Department </option>

<option value="Surgical Department">Surgical Department </option>

<option value="Orthopaedics Department">Orthopaedics Department </option>

<option value="E.N.T.department">E.N.T.department </option>

</select>

</td>

</tr>

</table>

<br />

<span style="display:block; width:500px; text-align:center">

<input type="submit" style="height:50px; width:100px;" name="Request"

value="Submit" style="text-align:center"; />

</span>

                </form>

</center>

</div>

</body>

</html>
```

A.13 Patient Searching for Doctors

```
<html>

<body bgcolor="pink" style="font-size:150%">

<center>

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


Figure A.13 Patient Searching for Doctors

```
<?php

$host="localhost";

$user="root";

$pass="";


$var_FirstName = $_POST['FirstName'];

$var_LastName = $_POST['LastName'];

$var_Department= $_POST['Department'];

$var_patientFirstName = $_POST['patientFirstName'];

$var_patientLastName = $_POST['patientLastName'];
```

```php
$con = mysql_connect($host,$user,$pass);

$db=mysql_select_db("online_doctor", $con);


$query=null;

$result=null;


$query = "SELECT * FROM doctor where FirstName='$var_FirstName' or

LastName='$var_LastName' and Department='$var_Department'" ;

$result = mysql_query($query);

while($row = mysql_fetch_array($result))

{

 $doctorID= $row['doctorID'];

  echo  "<input type=radio name=doctor value=".$doctorID.">";


  echo $row['FirstName'];

  $a= $row['FirstName'];

  echo " | ";

  echo $row['LastName'];

  $b= $row['LastName'];

  echo " | ";

  echo $row['Gender'];

  $c= $row['Gender'];
```

```php
echo " | ";

echo $row['OfficePhone'];

$d= $row['OfficePhone'];

echo " | ";

echo $row['Email'];

$e= $row['Email'];

echo " | ";

echo $row['Department'];

echo " ";

$f= $row['Department'];

echo "<br/>";

}
mysql_close($con);

?>
```

```html
<form method="post" action="patientSubmit.php">

<input type= "hidden" name= "nameA" value = "<?php echo $a; ?>"/>

<input type= "hidden" name= "nameB" value = "<?php echo $b; ?>"/>

<input type= "hidden" name= "nameC" value = "<?php echo $c; ?>"/>

<input type= "hidden" name= "nameD" value = "<?php echo $d; ?>"/>

<input type= "hidden" name= "nameE" value = "<?php echo $e; ?>"/>

<input type= "hidden" name= "nameF" value = "<?php echo $f; ?>"/>

<input type= "hidden" name= "patientFN" value = "<?php echo

$var_patientFirstName;?>"/>
```

```
<input type= "hidden" name= "patientLN" value = "<?php echo

$var_patientLastName;?>"/>

<input type= "hidden" name= "patientContactNumber" value = "<?php echo

$var_ContactNumber; ?>"/>

<br><br><br>

<tr>

                <td>Date</td>

                <td><input type="Date" name="date" /></td>

</tr>

        <tr>

                <td>Time</td>

<td>

                <select name ="Time">

<option value="08:00">08:00 </option>

<option value="09:00">09:00 </option>

<option value="10:00">10:00 </option>

<option value="11:00">11:00 </option>

                <option value="12:00">12:00 </option>

<option value="13:00">13:00 </option>

<option value="14:00">14:00 </option>

<option value="15:00">15:00 </option>

                <option value="16:00">16:00 </option>

</select>
```

```
</td>

</tr>

    <br><br><br>

    <span style="display:block; width:500px; text-align:center">

<input type="submit" style="height:50px; width:100px;" name="Request"

value="Submit" style="text-align:center"; />

</span>

</center>

</body>

</html>
```

A.14 Patient Creates and Submits a Record as an Appointment

The appointment table is doctor_patient_appointment.

```
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>Submit Page</title>

    <style>

 input

 {

  font-size:20px;

 }
```
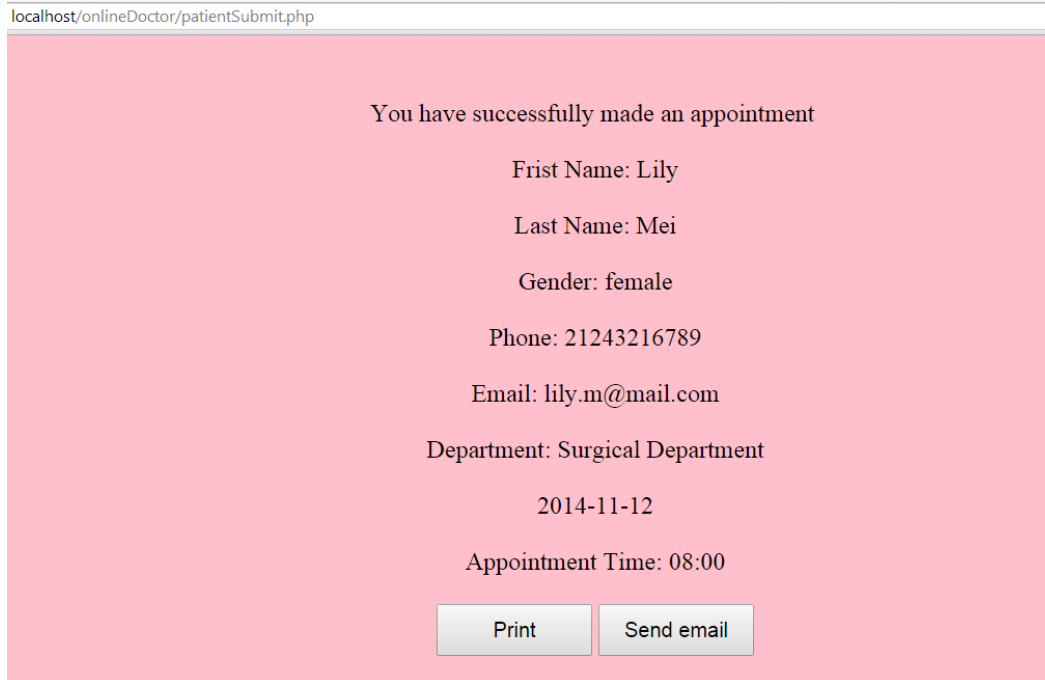
Figure A.14 Patient Creates and Submits a Record as an Appointment

```
</style>

</head>

<body bgcolor="pink">

<div style="font-size:150%;color:black">

<br/><br/>

<center>

<?php


$a = $_POST['nameA'];

$b = $_POST['nameB'];

$c = $_POST['nameC'];

$d = $_POST['nameD'];
```

```php
$e = $_POST['nameE'];

$f = $_POST['nameF'];

$g = $_POST['patientFN'];

$h = $_POST['patientLN'];

$date=$_POST['date'];

$time=$_POST['Time'];

$host="localhost";

$user="root";

$pass="";

$dbname="online_doctor";


$con = mysql_connect($host,$user,$pass);

$db=mysql_select_db($dbname,$con);

$query=null;

$result=null;

$query="INSERT INTO

patient_doctor_appointment(patientFirstName,patientLastName,doctorFirstName,doctor

LastName,Date,Time) VALUES('$g','$h','$a','$b','$date','$time')";

$result=mysql_query($query);

echo "You have successfully made an appointment";

mysql_close();

?>
```



```php
        <?php
echo "Frist Name: $a<br><br>";

echo "Last Name: $b<br><br>";

echo "Gender: $c<br><br>";

echo "Phone: $d<br><br>";

echo "Email: $e<br><br>";

echo "Department: $f<br><br>";

echo "$date<br><br>";

echo "Appointment Time: $time<br><br>";

?>
        <span style="display:block; width:600px; text-align:center">
<input type="submit" style="height:50px; width:150px;" name="Request" value="Print"

style="text-align:center"; />


            <style="display:block; width:600px; text-align:center">
<input type="submit" style="height:50px; width:150px;" name="Request" value="Send

email" style="text-align:center"; />

</span>

</center>

</div>

</body>

</html>
```