PHP/HTML

SIBD 2017/2018 1S

Group:
38

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Code

Below every file, we have the correspondent page(s).

medibase.html file

```html
<!DOCTYPE html>
<html>
        <center>
        <head>
        <title>Welcome to DHD Patient DB Web Interface</title>
        <h1>Health Center by DHD DB Solutions</h1>
        <img src="http://files.davidteles.com/Temporary/PatientSearch.png">
        </head>
        <body>
                <form action="/ist189011/action_page.php" method="post">
                        <p><Strong>Input patient name:</Strong>
                        <input type="text" name="patient" placeholder="Patient"/>
                        <input type="Submit" value="Search"/></p>
                </form>
                 <form action="/ist189011/newpatient.html" method="post">
        <p><Strong>Add new Patient:</Strong>

        <input type="Submit" value="ADD"/></p>
    </form>
                <form action="/ist189011/makeseries.php" method="post">
        <p><Strong>Create New Series:</Strong>

        <input type="Submit" value="Create"/></p>
    </form>
                <form action='/ist189011/selectserieselem.php'><input value='Add new region of interest'
type='submit'/></form>


        </body>
        </center>
</html>
```

Input patient name: [Patient] [Search]

Add new Patient: [ADD]

Create New Series: [Create]

[Add new region of interest]

newpatient.html file

```html
<!DOCTYPE html>
<html>
        <head>
        <title>Add Patient DHD DB Solutions</title>
        <center>
        <img src="http://www.fullartonmedicalpractice.scot.nhs.uk/uploads/images/Patient_Access_Registration2.png"
align="center">
        </head>
        <body>
                <h1>Add Patient</h1>
                <form action='/ist189011/newpatient.php'>
                        <input type="text" name="name" placeholder='Name' />
                        <br></br>
                        <input type="date" name="birthday" placeholder='yyyy-mm-dd'/>
                        <br></br>
                        <input type="text" name="address" placeholder='Address'/>
                        <br></br>
                        <input value='Add new patient' type='submit'/>

                </form>
        <form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>
        </body></center>
</html>
```

newpatient.php file

```php
<!-- IST MySQL Connection Test -- 2015.09.19 -->

<html>

<body>
<?php
        $host="db.ist.utl.pt"; // MySQL is hosted in this machine
        $user="ist189011";  // <== replace istxxx by your IST identity
        $password="jkru7758";        // <== paste here the password assigned by mysql_reset
        $dbname = $user;   // Do nothing here, your database has the same name as your username.

        $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));
```

```php
        $name = $_GET["name"];
        $birthday = $_GET["birthday"];
        $address = $_GET["address"];

        $result = $connection->query("select MAX(number) as num from Patient;");

        foreach($result as $row)
        {
                $number = 1 + $row["num"];
        }

        $sql = "insert into Patient values('" . $number . "','" . $name . "','" . $birthday . "','" . $address . "');";
        $result = $connection->query($sql);
        echo("<p></p>Patient successfully added.</p>");
        echo("<form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>");
        header("Location: /ist189011/medibase.html")
?>
</body>
</html>
```


Add Patient

Name

dd / mm / aaaa

Address

Add new patient
Go back

action_page.php file

```html
<!-- IST MySQL Connection Test -- 2015.09.19 -->

<html>
<header>
<title>DHD Search Results</title>
<img src="https://s3-eu-west-1.amazonaws.com/tpd/logos/580dcb270000ff00059677f9/0x0.png" height="75">
</header>
<style>
table, th, td {
   border: 1px solid black;
   border-collapse: collapse;
}
th, td {
   padding: 5px;
}
</style>
<body>
<?php
        $host="db.ist.utl.pt"; // MySQL is hosted in this machine
        $user="ist189011";  // <== replace istxxx by your IST identity
        $password="jkru7758";         // <== paste here the password assigned by mysql_reset
```

```php
        $dbname = $user;   // Do nothing here, your database has the same name as your username.

        $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));

        $sql = "SELECT * FROM Patient WHERE Patient.name like '%" . $_POST["patient"] . "%';";

        $result = $connection->query($sql);
        $num = $result->rowCount();




        if ($num == 0) {
                echo("No Patient Found that corresponds to your search terms!!");
                echo("<p>Would you like to add a record?</p>");
                echo("<form action='/ist189011/newpatient.html'><input value='Add new patient' type='submit'/></form>");

        }
        else{
                echo("<p><Strong>$num Patient that correspond to your search retrieved:</Strong></p>\n");

                echo("<table style='with:100%'");
                echo("<tr><td>Number</td><td>Name</td><td>Birthday</td><td>Address</td></tr>\n");
                foreach($result as $row)
                {
                        echo("<tr><td>");
                        echo($row["number"]);
                        echo("</td><td>");
                        echo("<a href='/ist189011/listdevices.php?number=" .$row['number'] . "&name=". $row['name'] .
"'>" .$row['name'] . "</a>");
                        echo("</td><td>");
                        echo($row["birthday"]);
                        echo("</td><td>");
                        echo($row["address"]);
                        echo("</td></tr>\n");
                }
                echo("</table>\n");
        }


    $connection = null;

        #echo("<button onclick=' window.history.back()'>Go Back</button>");

        echo("<form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>");
?>
</body>
<footer>Patient Management DB Solutions &copy; Designed By Diogo, Haakon and David DHD.</footer>
</html>
```

1 Patient that correspond to your search retrieved:

Number	Name	Birthday	Address
1	Joaoo	2015-01-15	Swing Road 46

Go back

Patient Management DB Solutions © Designed By Diogo, Haakon and David DHD.

web.tecnico.ulisboa.pt/ist189011/listdevices.php?number=1&name=Joaoo

listdevices.php file

```php
<!DOCTYPE html>
<html>
        <head>
        <title>Devices and Studies associated to the patient</title>
        </head>
        <style>
        table, th, td {
        border: 1px solid black;
        border-collapse: collapse;
        }
        th, td {
        padding: 5px;
        }

        footer{
        clear:both;
        width:100%;
        margin:auto;
        }
        </style>

        <div>
        <body>
        <?php
                $host="db.ist.utl.pt"; // MySQL is hosted in this machine
                $user="ist189011";  // <== replace istxxx by your IST identity
                $password="jkru7758";         // <== paste here the password assigned by mysql_reset
                $dbname = $user;   // Do nothing here, your database has the same name as your username.

                $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));

                $name = $_GET["name"];
                $number = $_GET["number"];

                echo("<p>List of devices worn by patient $number: " . $name . "</p>");
                echo("<div>");
                $sql = "select serialnum, model, manufacturer, start, end from Device natural join Wears, Patient where
patient= Patient.number and Patient.number=" . $number . " ORDER BY end DESC;";
                $result = $connection->query($sql);

                $now = time();
                $num = $result->rowCount();
                if ($num == 0){
```

<u>**29/11/2017**</u>

```php
                    echo("<p>There is no devices associated to this Patient!</p>");
            }
            else
            {

            echo("<p><table style='with:100%'");
            echo("<tr> <td>Serialnum</td> <td>Model</td> <td>Manufacturer</td> <td>Start</td>
<td>End</td></tr>\n");
            foreach($result as $row)
            {
                    if (strtotime($row["end"]) > $now && strtotime($row["start"]) < $now){
                            echo("</td><td bgcolor='#DDDDDD'>");
                            echo("<strong>" . $row['serialnum'] . "</strong>");
                            echo("</td><td bgcolor='#DDDDDD'>");
                            echo($row["model"]);
                            echo("</td><td bgcolor='#DDDDDD'>");
                            echo($row["manufacturer"]);
                            echo("</td><td bgcolor='#DDDDDD'>");
                            echo($row["start"]);
                            echo("</td><td bgcolor='#DDDDDD'>");
                            echo($row["end"]);
                            echo("</td><td bgcolor='#DDDDDD'>");
                            $manuf=$row['manufacturer'];
                            $serial=$row['serialnum'];
                            echo("<form action='/ist189011/replaceDevice.php'>
                            <input type='hidden' name='manufacturer' value='$manuf'/>
                            <input type='hidden' name='oldserial' value='$serial'/>
                            <input type='hidden' name='patientnumber' value='$number'/>
                             <input value='Replace' type='submit'/>
                             </form>");
                            echo("</td></tr>\n");
                    } else {
                            echo("<tr><td>");
                            echo($row["serialnum"]);
                            echo("</td><td>");
                            echo($row["model"]);
                            echo("</td><td>");
                            echo($row["manufacturer"]);
                            echo("</td><td>");
                            echo($row["start"]);
                            echo("</td><td>");
                            echo($row["end"]);
                            echo("</td></tr>\n");
                    }
            }

            }
            echo("</p>");
            echo("</div>");
            echo("<span>");
            echo("</br><p>List of Studies associates to the  patient $number: " . $name . "</p>");
            $sql = "select Study.date, description, performing_doctor_id, serialnum from Study, Request  WHERE
Study.request_number=Request.request_number and Request.patient_id=" . $number . ";";
            $result = $connection->query($sql);


            $num = $result->rowCount();
            if ($num == 0){
                    echo("<p>There is no studies associated to this Patient!</p>");
            }
            else
            {
```

```php
echo("<p><table style='with:100%'");
echo("<tr> <td>Study Date</td> <td>Description</td> <td>Doctor ID</td> <td>Device Serial Number</td></tr>\n");
foreach($result as $row)
{

        echo("<tr><td>");
        echo($row["date"]);
        echo("</td><td>");
        echo($row["description"]);
        echo("</td><td>");
        echo($row["performing_doctor_id"]);
        echo("</td><td>");
        echo($row["serialnum"]);
        echo("</td>");


    }
}
?>
        </p></div>
</body>
</main>
<footer><form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form></footer>
</html>
```

List of devices worn by patient 1: Joaoo

List of Studies associates to the patient 1: Joaoo

Serialnum	Model	Manufacturer	Start	End	
Medi6	MX2	Medtronic	2017-11-29 15:04:36	2018-10-02 00:00:00	Replace
Medi1	MX1	Medtronic	2017-11-29 14:30:09	2017-11-29 15:04:35	
Medi7	MX2	Medtronic	2017-11-29 14:30:00	2017-11-29 14:30:08	
Medi1	MX1	Medtronic	2016-10-01 00:00:00	2017-11-29 14:29:59	
df34	PilsnerTron	Heineken	1999-06-01 00:00:00	2000-07-01 00:00:00	

Go back

Study Date	Description	Doctor ID	Device Serial Number
2016-06-05	Xray	3	Mi1
2017-11-29	Description	1	df34
2017-11-29	Something that needs to be done	1	df34
2017-11-29	Description	1	df34
2017-11-29	Description	1	df34
2017-11-29	Description	1	df34
2017-11-29	Description	1	df34
2017-11-29	Description	1	df34

replaceDevice.php file

```html
<!DOCTYPE html>
<html>
        <head>
        <title>Devices worn by patient</title>
        </head>
        <body>


                <?php
```

```php
$host="db.ist.utl.pt"; // MySQL is hosted in this machine
$user="ist189011";  // <== replace istxxx by your IST identity
$password="jkru7758";        // <== paste here the password assigned by mysql_reset
$dbname = $user;   // Do nothing here, your database has the same name as your username.
$connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));


$manuf = $_GET["manufacturer"];
$oldserial = $_GET['oldserial'];
$patientnumber = $_GET['patientnumber'];


$sql = "select serialnum, model from Device where manufacturer = '$manuf' and serialnum NOT
IN (select serialnum from Wears where now() between start and end);";
$result = $connection->query($sql);
echo("Devices manufactured by: $manuf ");
echo("<form action='/ist189011/performreplace.php' method='get'><select name='serial'>");
foreach($result as $row){
        $serial= $row['serialnum'];
        $model = $row['model'];
        echo("<option value=$serial> Model: $model  Serial: $serial   </option>");
}

echo("<input type='hidden' name='oldserial' value='".$oldserial."'/>");
echo("<input type='hidden' name='patientnumber' value='".$patientnumber."'/>");
?>



</select>
<input type='submit' value='Replace'>
</form>
</br>

<form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>

    </body>
</html>
```

Devices manufactured by: Medtronic
✓ Model: MX1 Serial: Medi1   Replace
  Model: MX2 Serial: Medi7
Go back

performreplace.php file

<!-- IST MySQL Connection Test -- 2015.09.19 -->

```
<html>

<body>

<?php

        $host="db.ist.utl.pt"; // MySQL is hosted in this machine
        $user="ist189011";  // <== replace istxxx by your IST identity
        $password="jkru7758";        // <== paste here the password assigned by mysql_reset
        $dbname = $user;   // Do nothing here, your database has the same name as your username.

        $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));

        function doQuery( $connection, $sql, $args){
                $sth = $connection->prepare($sql);
                if (false==$sth) {
                        throw new Exception("Query preparation failed.");
                }
                $result = $sth->execute($args);
                if (false==$result) {
                        throw new Exception("Query execution failed.");
                }
        }

        $newserial = $_GET['serial'];
        $oldserial = $_GET['oldserial'];
        $patientnumber = $_GET['patientnumber'];
        $now = date("Y-m-d H:i:s", time());
        $now_plus = date("Y-m-d H:i:s", time()+1);

        $sql = "select start, end, manufacturer from Wears where serialnum = '$oldserial';";
        $result = $connection->query($sql);

        foreach($result as $row){
                $start = $row["start"];
                $end = $row["end"];
                $manuf = $row["manufacturer"];
        }

        #echo(" $now, $now_plus, $manuf, $oldserial, $newserial, $patientnumber");

        try{
                $connection->beginTransaction();
                $sql="delete from Wears where serialnum = ? and ? between start and end;";

                doQuery($connection, $sql, array($oldserial, $now) );
                /*
                $sth = $connection->prepare($sql);
                $sth->execute(array('23sdf', $now));
                */

                $sql="delete from Period where start = ? and end = ?;";
                /*
                $sth = $connection->prepare($sql);
                $sth->execute(array($start, $end ));
                * */
                doQuery($connection, $sql, array($start, $end ));

                $sql="insert into Period values(?, ?);";
                /*
                $sth = $connection->prepare($sql);
```

```php
        $sth->execute(array($start, $now));
        * */
        doQuery($connection, $sql, array($start, $now));

        $sql="insert into Period values(?, ?);";
        /*
        $sth = $connection->prepare($sql);
        $sth->execute(array($now_plus, $end));
        * */
        doQuery($connection, $sql, array($now_plus, $end));

        $sql="insert into Wears values(?,?,?,?,?);";
        /*
        $sth = $connection->prepare($sql);
        $sth->execute(array($now_plus, $end, $patientnumber, $newserial, $manuf));
        * */
        doQuery($connection, $sql, array($now_plus, $end, $patientnumber, $newserial, $manuf));

        $sql="insert into Wears values(?,?,?,?,?);";
        /*
        $sth = $connection->prepare($sql);
        $result = $sth->execute(array($start, $now, $patientnumber, $oldserial, $manuf));
        */
        doQuery($connection, $sql, array($start, $now, $patientnumber, $oldserial, $manuf));

        $connection->commit();

        echo("<p></p>Device successfully replaced.</p>");
        //header("Location: /ist189011/medibase.html")

    } catch(Exception $e){
        //Rollback the transaction.
        $connection->rollBack();
        echo("</br>".$e->getMessage());
    }
    echo("<form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>");

?>
</body>
</html>
```

Device successfully replaced.

Go back

makeseries.php file

```php
<!DOCTYPE html>
<html>
        <head>
        <title>Add Series DHD DB Solutions</title>
        </head>
        <body>
                <?php
                        $host="db.ist.utl.pt"; // MySQL is hosted in this machine
                        $user="ist189011";   // <== replace istxxx by your IST identity
                        $password="jkru7758";          // <== paste here the password assigned by mysql_reset
                        $dbname = $user;   // Do nothing here, your database has the same name as your username.

                        $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));

                        $base_url = "http://web.tecnico.ulisboa.pt/ist189011/series/";
                        $sql = "select doctor_id from Doctor;";
                        $doctors = $connection->query($sql);
                        $doctors2 = $connection->query($sql);

                        $sql = "select number from Patient;";
                        $patients = $connection->query($sql);

                        $date = date("Y-m-d", time());

                ?>

                <h1>Add Dataseries</h1>
                <form action='/ist189011/insertnewseries.php' method="post" id='requestform' >
                        <strong>Requesting doctor number:
                        <select name="rdoc" >
                        <?php
                                foreach($doctors as $row){
                                        $d= $row['doctor_id'];
                                        echo("<option value=$d> $d </option>");
                                }
                        ?>
                        </select>
                        <br></br>
                        <strong>Performing doctor number:
                        <select name="pdoc" >
                        <?php
                                foreach($doctors2 as $row){
                                        $d= $row['doctor_id'];
                                        echo("<option value=$d> $d </option>");
                                }
                        ?>
                        </select>
                        <br></br>
                        <strong>Patient number:
                        <select name="patient" >
                        <?php
                                foreach($patients as $row){
                                        $d= $row['number'];
                                        echo("<option value=$d> $d </option>");
                                }
                        ?>
                        </select>
                        <br></br>
```

```
        <textarea name='description' rows='5' cols='40' placeholder='Enter description here'></textarea>
        </br>
        <?php echo("<input type='hidden' name='date' value='$date'>"); ?>

        <input form='requestform' value='Add new dataseries' type='submit'/>
    </form>

  <form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>
  </body></center>
</html>
```

Add Dataseries

Requesting doctor number: [1 ▢]

Performing doctor number: [1 ▢]

Patient number: [1 ▢]

```
Enter description here
```

[Add new dataseries]
[Go back]

insertnewseries.php file

```php
<!DOCTYPE html>
<html>
        <head>
        <title>Add Series DHD DB Solutions</title>
        </head>
        <body>
                <?php

                        $rdoc = $_POST["rdoc"];
                        $pdoc = $_POST["pdoc"];
                        $patient = $_POST["patient"];
                        $description = $_POST["description"];
                        $date = $_POST["date"];

                        #echo("$patient, $pdoc, $rdoc, $date, $description </br>");

                        if ($rdoc == $pdoc){
                                echo("Performing doctor may not be he same as the requestng doctor.");
                                echo("</br>");
                                echo("<button onclick=' window.history.back()'>Go Back</button>");
                                die();
                        }

                        $host="db.ist.utl.pt"; // MySQL is hosted in this machine
                        $user="ist189011";   // <== replace istxxx by your IST identity
                        $password="jkru7758";          // <== paste here the password assigned by mysql_reset
                        $dbname = $user;   // Do nothing here, your database has the same name as your username.
```

```php
                            $connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));


                            $sql = "select serialnum, manufacturer from Wears where patient='$patient' and  now() > start ;";
                            $devices = $connection->query($sql);

                            $base_url = "http://web.tecnico.ulisboa.pt/ist189011/series/";
                ?>

                <h1>Choose device and upload file</h1>
                <form action='/ist189011/uploadseries.php' method="post" enctype="multipart/form-data">
                        Select device:
                        </br>
                        <select name="device" >

                        <?php
                                foreach($devices as $row){
                                        $serial= $row['serialnum'];
                                        $manuf= $row['manufacturer'];
                                        echo("<option value=$serial|$manuf> Manufacturer: $manuf Serial: $serial
</option>");

                                }
                        ?>

                        </select>
                        </br>
                        </br>
                        <input type='text' name='name', placeholder='Series name'>
                        </br>
                        </br>
                        Upload data series file:
                        </br>
                        <input type="file" name="fileToUpload" id="fileToUpload">
                        </br>

                        <?php
                        echo("<input type='hidden' name='rdoc' value='$rdoc'>");
                        echo("<input type='hidden' name='pdoc' value='$pdoc'>");
                        echo("<input type='hidden' name='patient' value='$patient'>");
                        echo("<input type='hidden' name='description' value='$description'>");
                        echo("<input type='hidden' name='date' value='$date'>");
                        ?>

                        </br>
                        <input value='Create dataseries' type='submit'/>
                </form>

                </br>
        <form action='/ist189011/medibase.html'><input value='Go back' type='submit'/></form>
        </body></center>
</html>
```

Choose device and upload file

Select device:

Manufacturer: Heineken Serial: df34

Series name

Upload data series file:

Escolher ficheiro | Nenhum ficheiro selecionado

Create dataseries

Go back

Performing doctor may not be he same as the requestng doctor.

Go Back

---

uploadseries.php file

```php
<!DOCTYPE html>
<html>
        <head>
        <title>Add Series DHD DB Solutions</title>
        </head>
        <body>
                <?php
                        $rdoc = $_POST["rdoc"];
                        $pdoc = $_POST["pdoc"];
                        $patient = $_POST["patient"];

                        $device = $_POST["device"];
                        $exp = explode('|', $device);
                        $serial = $exp[0];
                        $manuf = $exp[1];

                        $description = $_POST["description"];
                        $date = $_POST["date"];
                        $name = $_POST["name"];
```

```php
$host="db.ist.utl.pt"; // MySQL is hosted in this machine
$user="ist189011";   // <== replace istxxx by your IST identity
$password="jkru7758";          // <== paste here the password assigned by mysql_reset
$dbname = $user;   // Do nothing here, your database has the same name as your username.


$connection = new PDO("mysql:host=" . $host. ";dbname=" . $dbname, $user, $password,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_WARNING));



function doQuery( $connection, $sql, $args){
        $sth = $connection->prepare($sql);
        if (false==$sth) {
                throw new Exception("Query preparation failed.");
        }
        $result = $sth->execute($args);
        if (false==$result) {
                throw new Exception("Query execution failed. Code. " . $sth->errorcode() );
        }
}

$sql = "select MAX(request_number) as rnum from Request;";
$res = $connection->query($sql);
foreach($res as $row){
        $reqnumber = 1 + $row["rnum"];
}

$sql = "select MAX(series_id) as id from Series;";
$res = $connection->query($sql);
foreach($res as $row){
        $series_id = 1 + $row["id"];
}

$elem_index = 0;

$base_url = "http://web.tecnico.ulisboa.pt/ist189011/series/";
$series_dir = "series/$series_id/";
$elem_dir = "$series_dir/$elem_index/";

echo("$series_id, $reqnumber, ". $patient. ", ". $rdoc .", " . $date ." </br>");

try{
        $connection->beginTransaction();

        $sql="insert into Request values (?, ?, ?, ?);";
        doQuery($connection, $sql, array($reqnumber, $patient, $rdoc, $date) );

        $sql="insert into Study values (?, ?, ?, ?, ?, ?);";
        doQuery($connection, $sql, array($reqnumber, $description, $date, $pdoc, $serial,
$manuf));

        $sql="insert into Series values (?, ?, ?, ?, ?);";
        doQuery($connection, $sql, array($series_id, $name, $base_url, $reqnumber,
$description) );

        $sql="insert into Element values (?, ?);";
        doQuery($connection, $sql, array($series_id, $elem_index) );

        if (!file_exists($series_dir)) {
                mkdir($series_dir, 0777, true);
        }
```

```php
                                    if (!file_exists($elem_dir)) {
                                            mkdir($elem_dir, 0777, true);
                                    }

                                    #echo($target_file);
                                    if (move_uploaded_file($_FILES['fileToUpload']['tmp_name'], $elem_dir .
$_FILES['fileToUpload']['name'])) {
                                            echo("File uploaded </br>");
                                    }else {
                                            throw new Exception("There was an error uploading your file.");
                                    }

                                    $connection->commit();

                                    echo("Study created");
                                    //header("Location: /ist189011/medibase.html")

                            } catch(Exception $e){
                                    //Rollback the transaction.
                                    $connection->rollBack();
                                    echo("Study not created");
                                    echo("</br>".$e->getMessage());
                            }

                    ?>
            </br>
            <button value='Go back' onclick=' window.history.back()'>Go Back</button>
            <form action='/ist189011/medibase.html'><input value='Go back to main page' type='submit'/></form>
            </body></center>
    </html>
```

File uploaded
Study created
Go Back
Go back to main page

Study not created
There was an error uploading your file.

Go Back

Go back to main page

selectserieselem.php file

```html
<!DOCTYPE html>
<html>
        <head>
        <title>Add Series DHD DB Solutions</title>
        </head>
        <center>
        <body>
                <?php
                        $patient = $_POST["patient"];


                        $host="db.ist.utl.pt";   // MySQL is hosted in this machine
                        $user="ist189011";     // <== replace istxxx by your IST identity
                        $password="jkru7758";          // <== paste here the password assigned
by mysql_reset
                        $dbname = $user;      // Do nothing here, your database has the same
name as your username.

                        $connection = new PDO("mysql:host=" . $host. ";dbname=" .
$dbname, $user, $password, array(PDO::ATTR_ERRMODE =>
PDO::ERRMODE_WARNING));

                        $sql = "select distinct series_id from Series;";
                        $series = $connection->query($sql);

                        $sql = "select distinct elem_index from Element;";
                        $elems = $connection->query($sql);

                        $sql = "select patient_id from Request, Study, Series;";
```

```php
        $date = date("Y-m-d", time());

    ?>

    <h1>Add Region</h1>
    <form action='/ist189011/addregion.php' method="post" id='requestform' >
        <strong>Series id:
        <select name="series_id" >
        <?php
            foreach($series as $row){
                $d= $row['series_id'];
                echo("<option value=$d> $d </option>");
            }
        ?>
        </select>
        <br></br>
        <strong><p>Element index:
        <select name="elem_index" >
        <?php
            foreach($elems as $row){
                $d= $row['elem_index'];
                echo("<p><option value=$d> $d </option></p>");
            }
        ?>
        </p>
        </br>
        <p>
        </select></br>
        <input type="number" name="x1" placeholder="x1" min="0" max="1"
step="0.01"></br>
        <input type="number" name="x2" placeholder="x2" min="0" max="1"
step="0.01"></br>
        <input type="number" name="y1" placeholder="y1" min="0" max="1"
step="0.01"></br>
        <input type="number" name="y2" placeholder="y2" min="0" max="1"
step="0.01"></br>
        </p><br></br>
        <input type='submit' value='Add region of interest'>
    </form>

</br>
<p>
<form action='/ist189011/medibase.html'><input value='Go back'
type='submit'/></form>
</p>
```

```
    </body></center>
</html>
```

x1
x2
y1
y2

Add region of interest

Go back

---

addregion.php file

```
<!DOCTYPE html>
<html>
        <head>
        <title>Add Series DHD DB Solutions</title>
        </head>
        <body>
                <?php
                        $series_id = $_POST["series_id"];
                        $elem_index = $_POST["elem_index"];
                        $x1 = $_POST["x1"];
                        $x2 = $_POST["x2"];
                        $y1 = $_POST["y1"];
                        $y2 = $_POST["y2"];
                        #echo("$series_id.....$elem_index</br>");
                        $host="db.ist.utl.pt";    // MySQL is hosted in this machine
                        $user="ist189011";      // <== replace istxxx by your IST identity
                        $password="jkru7758";          // <== paste here the password assigned
by mysql_reset
                        $dbname = $user;      // Do nothing here, your database has the same
name as your username.

                        $connection = new PDO("mysql:host=" . $host. ";dbname=" .
$dbname, $user, $password, array(PDO::ATTR_ERRMODE =>
PDO::ERRMODE_WARNING));
```

```php
$sql = "select distinct patient_id from Request as r, Series as ser
where r.request_number = ser.request_number and ser.series_id = $series_id;";
$patients = $connection->query($sql);

foreach($patients as $row){
        $patient= $row['patient_id'];
}

#echo("patient: $patient, </br>");

$studydate = "select distinct Study.date as dt from Request as r,
Series, Study where Series.request_number = Study.request_number and
Series.description=Study.description and Series.series_id=$series_id;";
$res = $connection->query($studydate);
foreach($res as $row){
        $dt = $row["dt"];
        #echo("dt: $dt </br>");
}

#echo("</br> laststudy </br>");
$laststudy = "select s.request_number , description, max(s.date) as
mxdt from Study as s, Request as r where s.date < '$dt' and s.request_number =
r.request_number and r.patient_id=$patient";
$res2 = $connection->query($laststudy);

#echo("<tr> <td>req</td> <td>desc</td> <td>dt</td> </tr>\n");
foreach($res2 as $row){
        #echo("<tr><td>");
        #echo($row["request_number"]);
        $req = $row["request_number"];
        #echo("</td><td>");
        #echo($row["description"]);
        $desc = $row["description"];
        #echo("</td><td>");
        #echo($row["mxdt"]);
        $mxdt = $row["mxdt"];
        #echo("</td></tr>\n");
}




#$regions = "select x1,x2,y1,y2 from Region as r, Study as s, Series
as sr, where $req=sr.request_number and $desc=sr.description and
sr.series_id=r.series_id;";
```

```php
                    #$regions = "select(r.series_id, r.elem_index, x1,x2,y1,y2) from
Region as r, (select series_id from Series where request_number=$req and
description='$desc' ) as ss where r.series_id=ss.series_id;";

                    $overlapping_regions = "select ss.series_id, r.elem_index,
region_overlaps_element(ss.series_id, r.elem_index, $x1,$x2,$y1,$y2) as ovrlp from Region
as r, (select series_id from Series where request_number=$req and description='$desc' ) as
ss where r.series_id=ss.series_id;";
                    $overlaps = $connection->query($overlapping_regions);
                    echo("$desc, $req</br>");
                    foreach($overlaps as $row){
                            $ovrlp = $row["ovrlp"];
                            echo("$ovrlp</br>");
                            $id = $row["series_id"];
                            $elem = $row["elem_index"];
                            if ($ovrlp==1){
                                    echo("Overlaps with element $elem in series $id.
</br>");
                            }
                    }
            ?>
        <form action='/ist189011/medibase.html'><input value='Go back'
type='submit'/></form>
        </body></center>
</html>
```

Overlaps with element 0 in series 105.
Added region of interest (1, 1), (1, 1) to element 2 in series 100.

Go back