INSTITUTO SUPERIOR TÉCNICO

SISTEMAS DE INFORMAÇÃO E BASES DE DADOS

PROJECTO

PARTE III

Autores:

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75268

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Grupo:

15

Turno:

2.ªf, 11h-12h30

Ano Letivo:

2016-2017

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Comentários

O relatório da terceira parte do projecto encontra-se dividido em 3 partes:
    - Temos screenshots da nossa webpage
    - Código HTML e PHP (assim como SQL vindo da segunda parte do projecto)

Acreditamos que existem alguns erros, mas estaremos dispostos a esclarecer os mesmos aquando da discussão de projecto. Estas pequenas nuances devem-se à falta de tempo
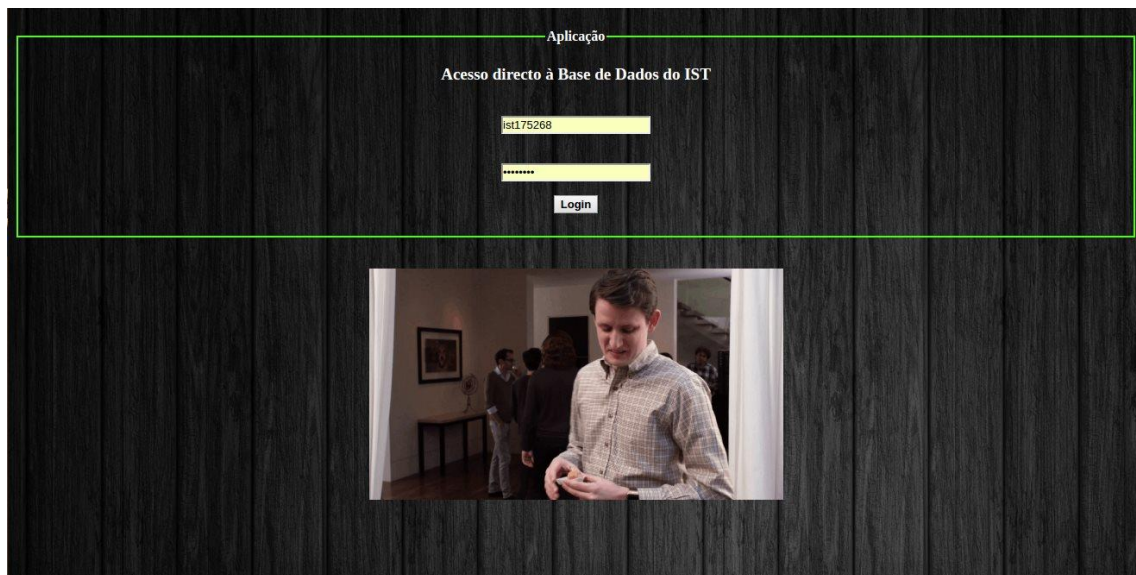
Screenshots

Ilustração 1

INSTITUTO SUPERIOR TÉCNICO
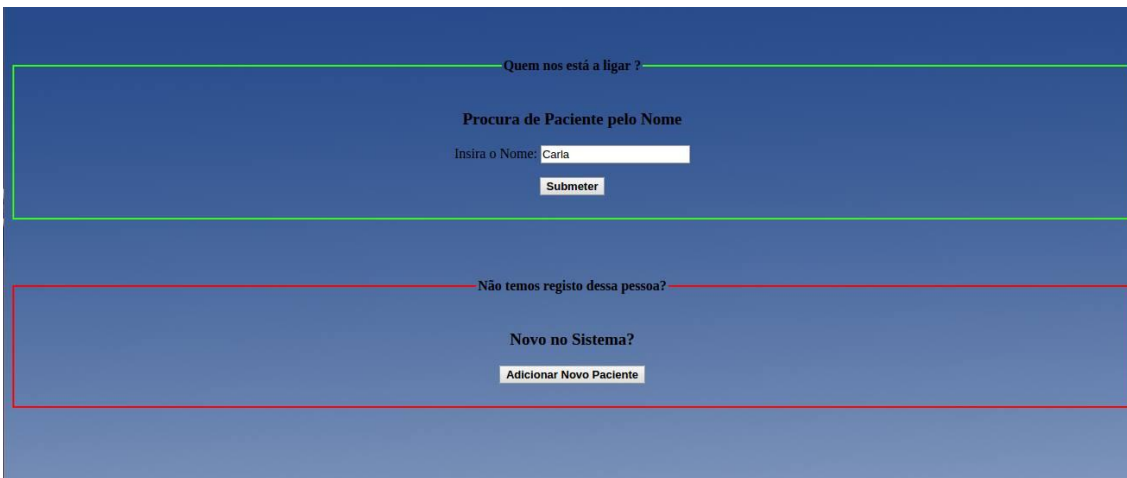
SISTEMAS DE INFORMAÇÃO E BASES DE DADOS

Lets Start!

Autores:

Rúben Tadeia --> Nº 75268

Carla Marreiros --> Nº 75682

Bruno Pereirinha --> Nº 79297

Ilustração 2

Quem nos está a ligar ?

Procura de Paciente pelo Nome

Insira o Nome: Carla

Submeter

Não temos registo dessa pessoa?
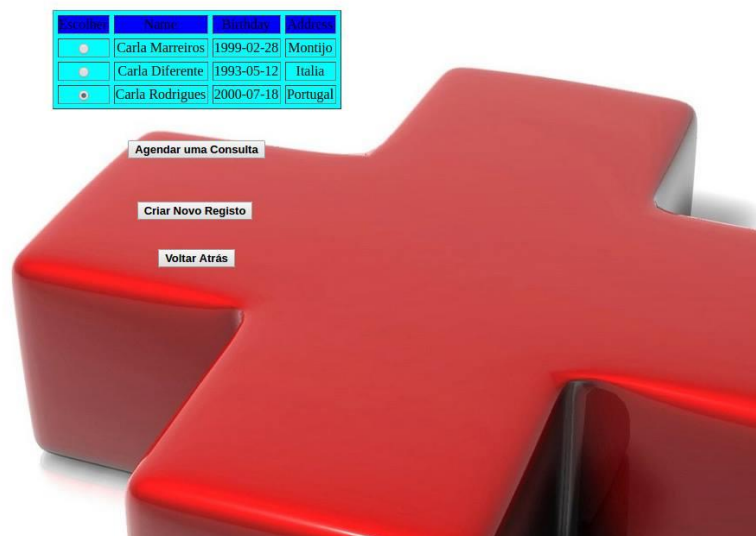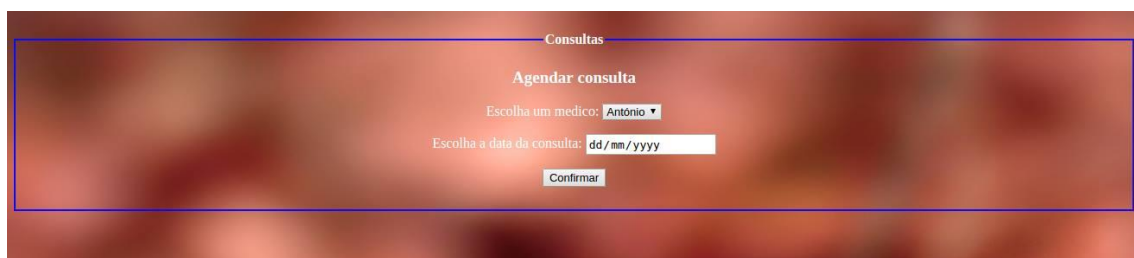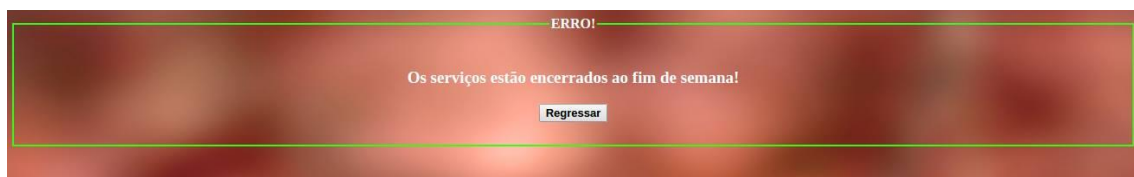
Novo no Sistema?

Adicionar Novo Paciente

Ilustração 3

Escolhe	Name	Birthday	Address
○	Carla Marreiros	1999-02-28	Montijo
○	Carla Diferente	1993-05-12	Italia
●	Carla Rodrigues	2000-07-18	Portugal

Agendar uma Consulta

Criar Novo Registo

Voltar Atrás

Ilustração 4

Consultas

Agendar consulta

Escolha um medico: António ▾

Escolha a data da consulta: dd / mm / yyyy

Confirmar

Ilustração 5

ERRO!

Os serviços estão encerrados ao fim de semana!

Regressar

Ilustração 6

Ilustração 7

Ilustração 8

Ilustração 9

Anexos

createDB.sql

```sql
/* USE ist175682
USE ist179297*/

USE ist175268;

SET FOREIGN_KEY_CHECKS = 0; /* Disable foreign key checking.*/
drop table if exists appointment;
drop table if exists patient;
drop table if exists doctor;
SET FOREIGN_KEY_CHECKS = 1; /* Enable foreign key checking.*/

create table IF NOT EXISTS patient(
    patient_id  integer NOT NULL AUTO_INCREMENT,
    name  varchar(50) NOT NULL,
    birthday  date NOT NULL,
    address  varchar(255) NOT NULL,
    primary key(patient_id)
    );

create table IF NOT EXISTS doctor(
    doctor_id  integer NOT NULL AUTO_INCREMENT,
    name  varchar(50) NOT NULL,
    specialty  varchar(20) NOT NULL,
    primary key(doctor_id)
    );

create table IF NOT EXISTS appointment(
    patient_id  integer NOT NULL,
    doctor_id  integer NOT NULL,
    date  date NOT NULL,
    office  varchar(100) NOT NULL,
    primary key(patient_id, doctor_id, date),
    foreign key(patient_id) references patient(patient_id),
    foreign key(doctor_id) references doctor(doctor_id)
    );
```

insertDB.sql

```sql
/* USE ist175682
USE ist179297 */

USE ist175268;

/* Limpeza das tabelas */
SET FOREIGN_KEY_CHECKS = 0; /* Disable foreign key checking.*/
TRUNCATE TABLE patient;
TRUNCATE TABLE doctor;
TRUNCATE TABLE appointment;
SET FOREIGN_KEY_CHECKS = 1; /* Enable foreign key checking.*/

/* patient */
```

```sql
insert into patient values (5, 'John', '1994-04-14', 'Rua das
Lagartixas, segunda osga Ã  direita');
insert into patient values (6, 'Carlos', '1990-12-25' ,'Sem
abrigo');
insert into patient values (2, 'Carla Marreiros', '1999-02-28'
,'Montijo');
insert into patient values (7, 'Emma', '2004-05-17' ,'Samora
Correia');
insert into patient values (4, 'Roberta Leal', '1900-03-20'
,'Casa dos Soldados');
insert into patient values (3, 'Francesca', '1993-05-12'
,'Italia');
insert into patient values (1, 'Joaquim', '2000-07-18'
,'Portugal');
insert into patient (name, birthday, address) values ('Matilde',
'2018-12-31' ,'Madeira');
insert into patient values (9, 'Roberta Francisca', '1900-03-
20' ,'Casa dos Soldados');
insert into patient values (10, 'Carla Diferente', '1993-05-12'
,'Italia');
insert into patient values (11, 'Carla Rodrigues', '2000-07-18'
,'Portugal');

/* doctor */
insert into doctor values (1, 'AntÃ³nio', 'Dermatologista');
insert into doctor values (2,'Joana', 'Cardiologista');
insert into doctor values (3, 'Maria', 'Alergia e Imunologia');
insert into doctor values (4, 'Raul', 'Medicina interna');
insert into doctor values (5, 'FÃ¡bio', 'Endoscopia');
```

here.html

```html
<html>
    <head>
        <title>Fa&ccedil;a aqui Log In</title>
    </head>
    <body background="images/background1.jpeg">
        <!-- ReferÃªncias BibliogrÃ¡ficas: Link:
https://images.duckduckgo.com/iu/?u=http%3A%2F%2Flospinguos.com%
2Fwp-content%2Fuploads%2F2012%2F09%2Fbackground.jpg&f=1-->
        <center>
            <br>
            <fieldset style="border: 2px solid rgb(77,255,20);">
                <legend
style="color:#FFFFFF"><strong>Aplica&ccedil;&atilde;o</strong></
legend>
                <h3 style="color:#FFFFFF">Acesso directo
&agrave; Base de Dados do IST</h3>
                <form action="intro.php" method="post">
                    <p><br><input type="text" name="istid"
placeholder="T&eacute;cnico ID"/></p>
                    <p><br><input type="password" name="pass"
placeholder="Palavra-passe"/></p>
```

```html
                        <p><input type="submit" value="Login"
style="font-weight:bold;"/></p>
                </form>
            </fieldset>
            <br><br>
            <img src="images/startup.gif" alt="yes"
style="width:480px;height:268px;">
            <!-- Referências Bibliográficas: Link:
http://giphy.com/gifs/silicon-valley-3oEjHEmvj6yScz914s-->
        </center>
    </body>
</html>
```

intro.php

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Projecto Parte III - Grupo 15</title>
    </head>
    <body>
        <center>
            <img src="images/IST.jpeg" alt="Logo"
style="width:630px;height:380px;">
            <h1 style="color:blue;">INSTITUTO SUPERIOR
T&Eacute;CNICO</h1>
            <p>SISTEMAS DE INFORMA&Ccedil;&Atilde;O E BASES DE
DADOS</p>
            <br><br>
            <form action="begin.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <p><input type="submit" value="Lets Start!"
style="font-weight:bold;"/></p>
            </form>
            <br>
            <p>Autores:</p>
            <br>
            <p>R&uacute;ben Tadeia --> N&deg; 75268</p>
            <p>Carla Marreiros --> N&deg; 75682</p>
            <p>Bruno Pereirinha --> N&deg; 79297</p>
        </center>
    </body>
</html>
```

begin.php

```html
<html>
    <head>
        <title>Quem nos est&aacute; a Ligar?</title>
    </head>
    <body background="images/background2.jpeg">
        <!-- Refer&Acirc;&ordf;ncias Bibliogr&Acirc;&iexcl;ficas: Link:
https://images.duckduckgo.com/iu/?u=http%3A%2F%2Fcoastalmedical.
net%2Fassets%2Fpagebackground2.jpg&f=1-->
        <center>
            <br><br>
            <form action="patients.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <fieldset style="border: 2px solid
rgb(50,255,20);">
                    <legend><strong>Quem nos est&aacute;
a ligar ?</strong></legend>
                    <br>
                    <h3>Procura de Paciente pelo
Nome</h3>
                    <p>Insira o Nome: <input type="text"
name="patient_name"/></p>
                    <p><input type="submit"
value="Submeter" style="font-weight:bold;"/></p>
                </fieldset>
            </form>
            <br><br>
            <form action="new_patient.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <fieldset style="border: 2px solid
rgb(255,0,0);">
                    <legend><strong>N&atilde;o temos
registo dessa pessoa?</strong></legend>
                    <br>
                    <h3>Novo no Sistema?</h3>
                    <p><input type="submit"
value="Adicionar Novo Paciente" style="font-weight:bold;"/></p>
                </fieldset>
            </form>
        </center>
    </body>
</html>
```

patients.php

```html
<html>
    <head>
        <title>J&aacute; conhecemos este paciente?</title>
    </head>
    <body background="images/background3.jpeg">
```

```php
        <!-- Referências Bibliográficas: Link:
https://images.duckduckgo.com/iu/?u=http%3A%2F%2Ffindwallpapersh
d.com%2Fwp-content%2Fuploads%2F2013%2F10%2F3D-medical-logo-hd-
pictures.jpg&f=1-->
        <center>
            <?php
                $host = "db.tecnico.ulisboa.pt";
                $user = $_REQUEST['istid'];
                $pass = $_REQUEST['pass'];
                $dsn = "mysql:host=$host;dbname=$user";
                try
                {
                    $connection = new PDO($dsn, $user,
$pass);
                }
                catch(PDOException $exception)
                {
                    echo("<p>Error: ");
                    echo($exception->getMessage());
                    echo("</p>");
                    exit();
                }
                $patient_name = $_REQUEST['patient_name'];
                $nome = "select name, birthday, address,
patient_id from patient having name like '$patient_name%'";

                $result = $connection->query($nome);

                $nrows = $result->rowCount();?>
            <form action="appointment.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <?php
                    if($nrows>=1){
                        echo("<table border=\"1\"
cellspacing=\"5\" bgcolor=\"#00FFFF\">\n");
                        echo("<tr align=\"center\"
bgcolor=\"#0000FF\"><td>Escolher</td><td>Name</td><td>Birthday</
td><td>Address</td></tr>");
                            foreach($result as $row)
                            {
                                echo("<tr
align=\"center\"><td>");
                                ?><input type="radio"
name="patient_id" value="<?php echo($row['patient_id']); ?>"
checked><?php
                    echo("</td><td>");
                    echo($row['name']);
                    echo("</td><td>");
                    echo($row['birthday']);
                    echo("</td><td>");
                    echo($row['address']);
                    echo("</td></tr>");?> <br><?php
                    }
```
9

```php
                    echo("</table>");

                    ?>
                <br><br>
                <input type="submit" value="Agendar uma
Consulta" style="font-weight:bold;">
                <?php
                    }
                    else
                    {
                        ?>
                <h3><br>Paciente n&atilde;o consta na Base
de Dados!<br><br><br>Por favor registe este novo
paciente!<br></h3>
                <?php
                    }
                    ?>
            </form>
            <br>
            <form action="new_patient.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <input type="submit" value="Criar Novo
Registo" style="font-weight:bold;">
                <br><br>
            </form>
            <form action="begin.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <input type="submit" value="Voltar
Atr&aacute;s" style="font-weight:bold;">
            </form>
            <?php
                $connection = null;
                ?>
        </center>
    </body>
</html>
```

appointment.php

```php
<?php session_start(); ?>
<html>
    <head>
        <title>Agendar Consulta</title>
    </head>
    <body background="images/leaf.jpeg">
        <center>
            <?php
```

```php
            $host = "db.tecnico.ulisboa.pt";
            $user = $_REQUEST['istid'];
            $pass = $_REQUEST['pass'];
            $dsn = "mysql:host=$host;dbname=$user";

            try
            {
                $connection = new PDO($dsn, $user, $pass);
            }
            catch(PDOException $exception)
            {
                echo("<p>Error: ");
                echo($exception->getMessage());
                echo("</p>");
                exit();
            }

            $_SESSION['patient_id'] = $_REQUEST['patient_id'];
            $doc_list = "select name from doctor";
            $search_doc = $connection->query($doc_list);
            ?>
        <br>
        <fieldset style="border: 2px solid rgb(10,10,255);">
            <legend
style="color:#FFFFFF"><strong>Consultas</strong></legend>
            <form action="schedule.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <h3 style="color:#FFFFFF"><strong>Agendar
consulta</strong></h3>
                <p style="color:#FFFFFF">
                    Escolha um medico:
                    <select name="doc_name">
                        <?php
                            foreach($search_doc as $row)
                            {
                                ?>
                    <option value="<?php
echo($row['name']);?>"><?php echo($row['name']);?></option>
                        <?php
                            }?>
                    </select>
                </p>
                <p style="color:#FFFFFF">Escolha a data da
consulta: <input type="date" name="schedule_date"/></p>
                <p><input type="submit" value="Confirmar"/></p>
            </form>
            <?php
                $connection = null;
                ?>
        </fieldset>
    </center>
  </body>
</html>
```

```php
<?php session_start(); ?>
<html>
   <head>
      <title>A marcar</title>
   </head>
   <body background="images/leaf.jpeg">
      <center>
      <?php

         $_SESSION['sch_date'] = $_REQUEST['schedule_date'];

        if ($_SESSION['sch_date'] <= date("Y-m-d")) {
          ?>
                <form action="begin.php" method="post">
                    <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                    <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                    <fieldset style="border: 2px solid
rgb(50,255,20);">
                        <legend
style="color:#FFFFFF"><strong>ERRO!</strong></legend>
                        <br>
                        <h3 style="color:#FFFFFF"><strong>A
data que inseriste tem que ser posterior ao dia de hoje!
</strong></h3>
                        <p><input type="submit"
value="Regressar" style="font-weight:bold;"/></p>
                    </form>
          <?php
        }
        else if ( date(N,strtotime($_SESSION['sch_date'])) >= 6
){
          ?>
                    <form action="begin.php" method="post">
                    <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                    <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                    <fieldset style="border: 2px solid
rgb(50,255,20);">
                        <legend
style="color:#FFFFFF"><strong>ERRO!</strong></legend>
                        <br>
                        <h3 style="color:#FFFFFF"><strong>Os
servi&ccedil;os est&atilde;o encerrados ao fim de semana!
</strong></h3>
                        <p><input type="submit"
value="Regressar" style="font-weight:bold;"/></p>
                    </form>
```

```php
        <?php
    }
    else {

            $host = "db.tecnico.ulisboa.pt";
            $user = $_REQUEST['istid'];
        $pass = $_REQUEST['pass'];
            $dsn = "mysql:host=$host;dbname=$user";

            try
            {
                    $connection = new PDO($dsn, $user, $pass);
            }
            catch(PDOException $exception)
            {
                    echo("<p>Error: ");
                    echo($exception->getMessage());
                    echo("</p>");
                    exit();
            }

        $doc = $_REQUEST['doc_name'];
        $get_doc_id = "select doctor_id from doctor where
name = '$doc'";

        $doctor_id_list = $connection->query($get_doc_id);

            foreach($doctor_id_list as $row){
$_SESSION['doctor_id']=$row['doctor_id'];}

        $office_q = "select office from appointment where
doctor_id = '$_SESSION[doctor_id]' and date =
'$_SESSION[sch_date]'";

            $check_office = $connection->query($office_q);
            $nrows = $check_office->rowCount();

            ?>
            <fieldset style="border: 2px solid
rgb(10,10,255);">
          <legend style="color:#FFFFFF"><strong>A
Marcar</strong></legend>
            <form action="final.php" method="post">
            <?php

            if($nrows >= 1){
                    foreach($check_office as $row){
$_SESSION['office']=$row['office'];}
                    echo("A consulta terÃ¡ lugar no gabinete:"
. $_SESSION[office]);

            }else {

                    $office_busy_q = "select office from
appointment where date = '$_SESSION[sch_date]'";
```

```php
                $check_office_busy = $connection-
>query($office_busy_q);

                foreach($check_office_busy as $row){
                    $check_aux[] = $row['office'];
                }

                $office_list = array("Sala 1", "Sala 2",
"Sala 3", "Sala 4", "Sala 5", "Sala 6", "Sala 7", "Sala 8",
"Sala 9", "Sala 10");

                $office_result =
array_diff($office_list,$check_aux);

                ?><p><strong>Escolha um gabinete:
</strong></p>
                <select name="selected_office"><?php

                if (count($office_result) >0){
                    for($i=0;
$i<=count($office_result);$i++){
                            if ($office_result[$i] != ""){
                                ?><option value="<?php
echo($office_result[$i]);?>" ><?php
echo($office_result[$i]);?></option><?php
                            }
                    }
                }else{
                    for($i=0;
$i<=count($office_list);$i++){
                            if ($office_list[$i] != ""){
                                ?><option value="<?php
echo($office_list[$i]);?>" ><?php
echo($office_list[$i]);?></option><?php
                            }
                    }
                }


                ?>
                </select><?php
            }
            ?>
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
            <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
            <p><input type="submit" value="Submit"/></p>
            </form><?php
        }
        $connection = null;
        ?>
        </center>
    </body>
</html>
```

final.php

```php
<?php session_start(); ?>
<html>
    <head>
        <title>Finalizar</title>
    </head>
    <body background="images/success.jpeg">
        <center>
            <?php
                $host = "db.tecnico.ulisboa.pt";
                    $user = $_REQUEST['istid'];
                    $pass = $_REQUEST['pass'];
                    $dsn = "mysql:host=$host;dbname=$user";

                    try
                    {
                       $connection = new PDO($dsn, $user, $pass);
                    }
                    catch(PDOException $exception)
                    {
                       echo("<p>Error: ");
                       echo($exception->getMessage());
                       echo("</p>");
                       exit();
                    }

                $office = $_REQUEST['selected_office'];

                  $stmt = $connection->prepare("INSERT INTO
appointment(patient_id,doctor_id,date,office)
VALUES(:patient_id,:doctor_id,:date,:office)");
                  $stmt->execute(array(':patient_id' =>
$_SESSION[patient_id] , ':doctor_id' => $_SESSION[doctor_id],
':date' => $_SESSION[sch_date], ':office' => $office));

                $connection = null;

                ?>
            <form action="begin.php" method="post">
                <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
                <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
                <fieldset style="border: 2px solid rgb(50,255,20);">
                <legend
style="color:#FFFFFF"><strong>Confirmado!</strong></legend>
                <br>
                <h3 style="color:#FFFFFF"><strong>A sua
marca&ccedil;&atilde;o foi executada com Sucesso</strong></h3>
                <p><input type="submit" value="Regressar"
style="font-weight:bold;"/></p>
            </form>
        </center>
```

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

new_patient.php

```
<html>
  <head>
    <title>Adicionar Novo Paciente</title>
  </head>
    <body background="images/background4.jpeg">
          <!-- Referências Bibliográficas: Link:
https://images.duckduckgo.com/iu/?u=http%3A%2F%2Fbestwallpaperhd
.com%2Fwp-content%2Fuploads%2F2015%2F03%2FMedical-
Symbol.jpg&f=1-->
      <h3><strong>Adicionar Novo Paciente</strong></h3>
      <br><br>
      <fieldset style="border: 2px solid rgb(10,10,255);">
        <legend><strong>Por Favor Preencha os dados de
Utilizador</strong></legend>
        <form action="new_appointment.php" method="post">
          <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
          <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
            <p>Nome Do Paciente: <input type="text" name="pName"
placeholder="Exemplo: Jo&atilde;o Miguel da Silva Cruz"
size="60" /></p>
            <p>Escolha a Data de Nascimento: <input type="date"
name="pBirthday"/></p>
            <p>Morada Do Paciente: <input type="text"
name="pAddress" placeholder="Exemplo: Rua dos Actores Lote 27,
2&deg; Esquerdo" size="60" /></p>
            <p><input type="submit" value="Completar Registo"
style="font-weight:bold;"/></p>
        </form>
      </fieldset>
    </body>
</html>
```

new_appointment.php

```
<html>
    <head>
      <title>Agendar Consulta Para Novo Paciente</title>
    </head>
    <body background="images/leaf.jpeg">
      <center>
```

```php
<?php
    $host = "db.tecnico.ulisboa.pt";
    $user = $_REQUEST['istid'];
    $pass = $_REQUEST['pass'];
    $dsn = "mysql:host=$host;dbname=$user";
    try
    {
    $connection = new PDO($dsn, $user, $pass);
    }
    catch(PDOException $exception)
    {
    echo("<p>Error: ");
    echo($exception->getMessage());
    echo("</p>");
    exit();
    }

    $pName = $_REQUEST['pName'];
    $pBirthday = $_REQUEST['pBirthday'];
    $pAddress = $_REQUEST['pAddress'];

    $doc_list = "select name from doctor";
    $search_doc = $connection->query($doc_list);
    ?>
<br>
<fieldset style="border: 2px solid rgb(10,10,255);">
    <legend
style="color:#FFFFFF"><strong>Consultas</strong></legend>
    <form action="transaction.php" method="post">
        <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
        <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>

        <p><input type="hidden" name="pName"
value="<?=$_REQUEST['pName']?>"/></p>
        <p><input type="hidden" name="pBirthday"
value="<?=$_REQUEST['pBirthday']?>"/></p>
        <p><input type="hidden" name="pAddress"
value="<?=$_REQUEST['pAddress']?>"/></p>
        <h3 style="color:#FFFFFF"><strong>Agendar
consulta</strong></h3>
        <p style="color:#FFFFFF">
            Escolha um medico:
            <select name="doc_name">
                <?php
                    foreach($search_doc as $row)
                    {
                        ?>
                <option value="<?php
echo($row['name']);?>"><?php echo($row['name']);?></option>
                <?php
                    }?>
            </select>
        </p>
```

```
                <p style="color:#FFFFFF">Escolha a data da
consulta: <input type="date" name="schedule_date"/></p>
                <p><input type="submit" value="Confirmar"/></p>
            </form>
            <?php
                $connection = null;
                ?>
        </fieldset>
            </center>
    </body>
</html>
```

transaction.php

```
<html>
    <head>
        <title>A marcar Meeting</title>
    </head>
    <body background="images/leaf.jpeg">
        <center>
            <?php
                $host = "db.tecnico.ulisboa.pt";
                $user = $_REQUEST['istid'];
                $pass = $_REQUEST['pass'];
                $dsn = "mysql:host=$host;dbname=$user";

                try
                {
                    $connection = new PDO($dsn, $user, $pass);
                }
                catch(PDOException $exception)
                {
                    echo("<p>Error: ");
                    echo($exception->getMessage());
                    echo("</p>");
                    exit();
                }

                $doc = $_REQUEST['doc_name'];
                $get_doc_id = "select doctor_id from doctor where
name = '$doc'";

                $doctor_id_list = $connection->query($get_doc_id);

                foreach($doctor_id_list as $row){
$_SESSION['doctor_id']=$row['doctor_id'];}

                $office_q = "select office from appointment where
doctor_id = '$_SESSION[doctor_id]' and date =
'$_SESSION[sch_date]'";

                $check_office = $connection->query($office_q);
                $nrows = $check_office->rowCount();
```

```php
            ?>
        <fieldset style="border: 2px solid rgb(10,10,255);">
            <legend style="color:#FFFFFF"><strong>A
Marcar</strong></legend>
            <form action="final.php" method="post">
                <?php
                    if($nrows >= 1){
                        foreach($check_office as $row){
$_SESSION['office']=$row['office'];}
                        echo("A consulta terÃ¡ lugar no gabinete:"
. $_SESSION[office]);

                    }else {

                    $office_busy_q = "select office from
appointment where date = '$_SESSION[sch_date]'";

                    $check_office_busy = $connection-
>query($office_busy_q);

                    foreach($check_office_busy as $row){
                        $check_aux[] = $row['office'];
                    }

                    $office_list = array("Sala 1", "Sala 2",
"Sala 3", "Sala 4", "Sala 5", "Sala 6", "Sala 7", "Sala 8",
"Sala 9", "Sala 10");

                    $office_result =
array_diff($office_list,$check_aux);

                    ?>
            <p><strong>Escolha um gabinete: </strong></p>
            <select name="selected_office">
                <?php
                    if (count($office_result) >0){
                        for($i=0;
$i<=count($office_result);$i++){
                            if ($office_result[$i] != ""){
                                ?>
            <option value="<?php
echo($office_result[$i]);?>" ><?php
echo($office_result[$i]);?></option>
                <?php
                    }
                    }
                    }else{
                    for($i=0; $i<=count($office_list);$i++){
                    if ($office_list[$i] != ""){
                        ?>
            <option value="<?php
echo($office_list[$i]);?>" ><?php
echo($office_list[$i]);?></option>
                <?php
                    }
```

```php
								}
							}


							?>
					</select>
					<?php
						}
						?>
					<p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
					<p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
					<p><input type="hidden" name="pName"
value="<?=$_REQUEST['pName']?>"/></p>
					<p><input type="hidden" name="pBirthday"
value="<?=$_REQUEST['pBirthday']?>"/></p>
					<p><input type="hidden" name="pAddress"
value="<?=$_REQUEST['pAddress']?>"/></p>
					<p><input type="submit" value="Submit"/></p>
				</form>
				<?php
					}
					$connection = null;
					?>
			</fieldset>
		</center>
	</body>
</html>
```

success.php

```php
<html>
	<head>
		<title>Sucesso!</title>
	</head>
	<body background="images/success.jpeg">
		<!-- Referências Bibliográficas: Link:
http://hd4wallpapers.net/wp-
content/uploads/2014/11/christmas_wallpaper_full_hd-
1024x576.jpg-->
		<center>
			<br><br>
			<form action="begin.php" method="post">
				<p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
				<p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
				<fieldset style="border: 2px solid
rgb(50,255,20);">
					<legend
style="color:#FFFFFF"><strong>Confirmado!</strong></legend>
						<br>
```

```html
                                <h3 style="color:#FFFFFF">A sua
marca&ccedil;&atilde;o foi executada com Sucesso</h3>
                                <p><input type="submit"
value="Regressar" style="font-weight:bold;"/></p>
                    </form>
            </center>
      </body>
</html>
```

end.php

```php
<html>
    <head>
        <title>Finalizar</title>
    </head>
    <body background="images/success.jpeg">
        <center>
            <?php
                $host = "db.tecnico.ulisboa.pt";
                    $user = $_REQUEST['istid'];
                    $pass = $_REQUEST['pass'];
                    $dsn = "mysql:host=$host;dbname=$user";

                    try
                    {
                        $connection = new PDO($dsn, $user, $pass);
                    }
                    catch(PDOException $exception)
                    {
                        echo("<p>Error: ");
                        echo($exception->getMessage());
                        echo("</p>");
                        exit();
                    }

                $pName = $_REQUEST['pName'];
                $pBirthday = $_REQUEST['pBirthday'];
                $pAddress = $_REQUEST['pAddress'];

                $connection->beginTransaction();

                $stmt = $connection->prepare("INSERT INTO patient
(name, birthday, address) VALUES (:name, :birthday, :address)");
                $stmt->execute(array(':name' => $pName , ':birthday'
=> $pBirthday, ':address' => $pAddress ));

                $nrows1 = $stmt->rowCount();

                $stmt2 = $connection->prepare("INSERT INTO
appointment(patient_id,doctor_id,date,office)
VALUES(:patient_id,:doctor_id,:date,:office)");
                $stmt2->execute(array(':patient_id' =>
$_SESSION[patient_id] , ':doctor_id' => $_SESSION[doctor_id],
':date' => $_SESSION[sch_date], ':office' => $office));
```

```php
        $nrows2 = $stmt2->rowCount();

        if ($nrows1 > 0 && $nrows2 > 0) {
        $commit = $connection->commit();
        echo("<p>Confirmado! ");
        echo("</p>");
        } else {
        $rollback = $connection->rollback();
        echo("<p>Problemas na Data");
        echo("</p>");

         $connection = null;

         ?>
    <form action="begin.php" method="post">
       <p><input type="hidden" name="istid"
value="<?=$_REQUEST['istid']?>"/></p>
       <p><input type="hidden" name="pass"
value="<?=$_REQUEST['pass']?>"/></p>
       <fieldset style="border: 2px solid rgb(50,255,20);">
       <legend
style="color:#FFFFFF"><strong>Confirmado!</strong></legend>
       <br>
       <h3 style="color:#FFFFFF"><strong>A sua
marca&ccedil;&atilde;o foi executada com Sucesso</strong></h3>
       <p><input type="submit" value="Regressar"
style="font-weight:bold;"/></p>
    </form>
 </center>
 </body>
</html>
```