



FORMATO DE INFORME DE PRÁCTICA DE LABORATORIO / TALLERES / CENTROS DE SIMULACIÓN – PARA ESTUDIANTES

CARRERA: Computación

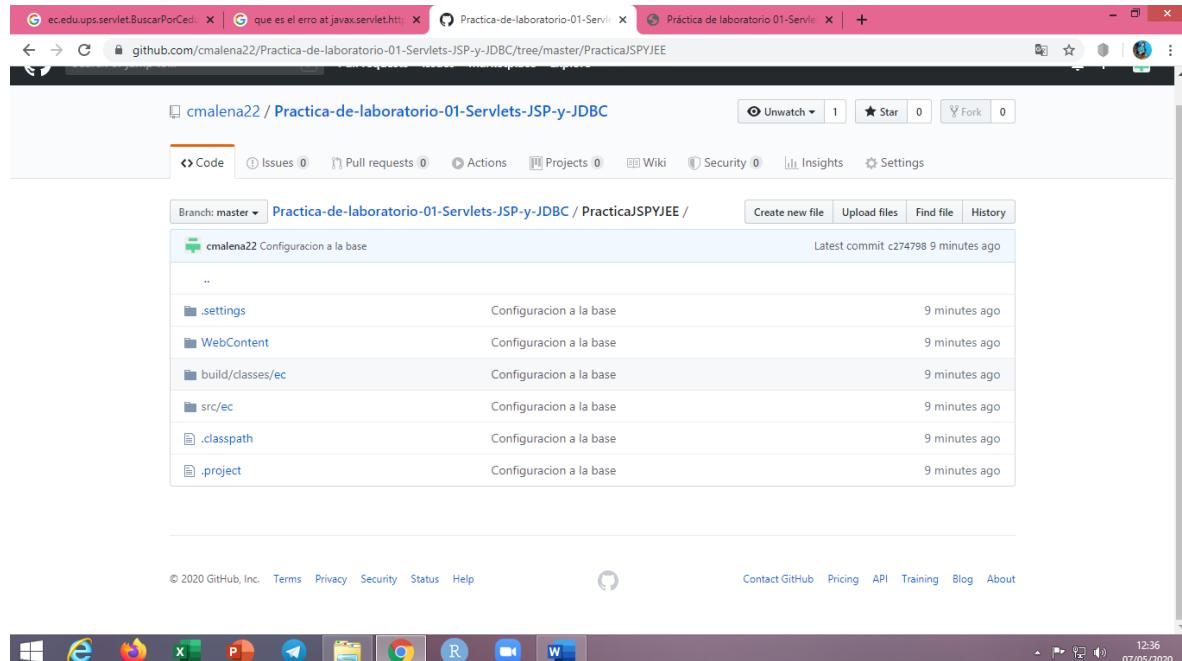
ASIGNATURA: PLATAFORMAS WEB

NRO. PRÁCTICA: 1 **TÍTULO PRÁCTICA:** Desarrollo de una aplicación JEE basado en Servlets, JSP y JDBC para el intercambio de datos en un modelo de tres capas aplicando los patrones diseño de software MVC y DAO

OBJETIVO ALCANZADO: Diseña y desarrolla modelos de software en diferentes niveles de abstracción y modelos de datos a nivel transaccional y analítico con entornos de desarrollo actuales.

ACTIVIDADES DESARROLLADAS

1. Crear un repositorio en GitHub con el nombre “Práctica de laboratorio 01: Servlets, JSP y JDBC”



The screenshot shows a GitHub repository page for 'Practica-de-laboratorio-01-Servlets-JSP-y-JDBC'. The repository has 1 star and 0 forks. It contains several files and folders, all updated 9 minutes ago. The files include .settings, WebContent, build/classes/ec, src/ec, .classpath, and .project.

2. Desarrollar una aplicación con tecnología JEE para gestionar una agenda telefónica en la web.

Código

JSP, Eliminar JSP

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

The screenshot shows two instances of the Eclipse IDE interface, each displaying a Java Server Page (JSP) file. The top instance displays `EliminarTelefono.jsp`, which contains the following code:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<%@ pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>Eliminar Telefono</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCV98/SIg0oJqVgRzphzo6SMXp4VF&lt;!-->" data-bbox="115 100 785 115"/>
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Ds0rT7ahK41JStQIAgVgRVzphzo6SMXp4VF&lt;!-->" data-bbox="115 120 785 135"/>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3YxXvZdCrkorbLQDnF1dW5c3N2Pr5VwBVRlXaZP/ElQkq3o6wv&lt;!-->" data-bbox="115 140 785 155"/>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqgxuUCnJSK3+N0mPNIyEt&lt;!-->" data-bbox="115 160 785 175"/>
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
        <a class="navbar-brand" href="#">Bienvenido</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav">
                <li class="nav-item active">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Listar">Listar Telefono</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Modificar">Modificar Telefono</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Registrar">Registrar Telefono</a>
                </li>
            </ul>
        </div>
    </nav>
    <div class="container">
        <form id="Formulario01" method="POST" action="/PracticaJSPYJEE/EliminarTelefonoSErvlet">
            <input type="hidden" id="codigo" name="codigo" value="<%php echo $codigo ?%>" />
            <label for="numero">Id:(*</label>
            <input type="text" id="id" name="id" placeholder="Ingresse el id a eliminar ..."/>
            <br/>
            <input type="submit" id="eliminar" name="accion" value="Eliminar" />
            <input type="reset" id="cancelar" name="cancelar" value="Cancelar" />
        </form>
    </div>
</body>
</html>
```

The bottom instance displays `ListarTelefono.jsp`, which contains the following code:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<%@ pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>Listar Telefono</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCV98/SIg0oJqVgRzphzo6SMXp4VF&lt;!-->" data-bbox="115 100 785 115"/>
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Ds0rT7ahK41JStQIAgVgRVzphzo6SMXp4VF&lt;!-->" data-bbox="115 120 785 135"/>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3YxXvZdCrkorbLQDnF1dW5c3N2Pr5VwBVRlXaZP/ElQkq3o6wv&lt;!-->" data-bbox="115 140 785 155"/>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqgxuUCnJSK3+N0mPNIyEt&lt;!-->" data-bbox="115 160 785 175"/>
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
        <a class="navbar-brand" href="#">Bienvenido</a>
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav">
                <li class="nav-item active">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Listar">Listar Telefono</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Modificar">Modificar Telefono</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Registrar">Registrar Telefono</a>
                </li>
            </ul>
        </div>
    </nav>
    <div class="container">
        <table border="1">
            <thead>
                <tr>
                    <th>ID</th>
                    <th>Nombre</th>
                    <th>Apellido</th>
                    <th>Número</th>
                    <th>Acción</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td>1</td>
                    <td>Juan</td>
                    <td>Perez</td>
                    <td>1234567890</td>
                    <td><a href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Modificar&id=1">Modificar</a> <a href="/PracticaJSPYJEE/EliminarTelefonoSErvlet?accion=Eliminar&id=1">Eliminar</a></td>
                </tr>
            </tbody>
        </table>
    </div>
</body>
</html>
```

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSYJEE/WebContent/JSPs>ListarTelefono.jsp - Eclipse IDE

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
3 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
4 <!DOCTYPE html>
5 <html>
6 <head>
7 <meta charset="ISO-8859-1">
8 <title>Listar Telefono</title>
9 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw1iEzjxZKkxjN1qdyu3DqyvX3/ehQFVsfW3XsDmXKp4Yf" data-pin="true">
10 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8I/X+965DzOOrT7abK4JSTgVgRpBzo5smXKp4Yf" data-pin="true">
11 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo36ZQnLw6ZGZL5Y3" data-pin="true">
12 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqxuZUCnJSK3+XKmPNIyE" data-pin="true">
13 <!-- Attribute src="Data Type: URL" -->
14 </head>
15 <body>
16 <nav class="navbar navbar-expand-lg navbar-light bg-light">
17 <a class="navbar-brand" href="#">Bienvenido</a>
18 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
19 <span class="navbar-toggler-icon"></span>
20 </button>
21 <div class="collapse navbar-collapse" id="navbarNav">
22 <ul class="navbar-nav">
23 <li class="nav-item active">
24 <a class="nav-link" href="/PracticaJSYJEE/ListTelefonoServlet?accion=Registrar" >Insertar Telefono</a>
25 </li>
26 <li class="nav-item">
27 <a class="nav-link" href="/PracticaJSYJEE/ListTelefonoServlet?accion=Modificar" >Modificar Telefono</a>
28 </li>
29 <li class="nav-item">
30 <a class="nav-link" href="/PracticaJSYJEE/ListTelefonoServlet?accion=Eliminar" >Eliminar Telefono</a>
31 </li>
32 </ul>
33 </div>
34 </nav>
35 <form action="/PracticaJSYJEE/ListTelefonoServlet" method="post">
36 <input class="btn btn-danger btn-block" type="submit" name="accion" value="Listar">
37 <input id="cedula" name="cedula" type="hidden" value="${nombre}">
38 </form>
39 <div>
40 <table class="table table-hover">
41 <thead>
42 <tr>
43 <th> ID </th>
44 <th> Numero </th>
45 <th> Tipo </th>
46 <th> Operadora </th>
47 <th> Cedula </th>
48 <th> </th>
49 <th> </th>
50 </thead>
51 <tbody>
52 <c:forEach var="tel" items="${telefono}">
53 <tr>
54 <td>${tel.getId()}</td>
55 <td>${tel.getNumero()}</td>
56 <td>${tel.getTipo()}</td>
57 <td>${tel.getOperadora()}</td>
58 <td>${tel.getUsuario_cedula()}</td>
59 </tr>
60 </c:forEach>
61 </tbody>
62 </table>
63 </div>
64 </div>

```

eclipse - PracticaJSYJEE/WebContent/JSPs>ListarTelefono.jsp - Eclipse IDE

Modificar Teléfono

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSPYJEE/WebContent/JSPs/ModificarTelefono.jsp - Eclipse IDE

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="ISO-8859-1">
7   <title>Modificar Telefono</title>
8   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-+Q5OgIYqE9x+nuLgXkNnHj0/6P+uKZc1lJQXoWwzPfLJUJZJLW" crossorigin="anonymous">
9   <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8I/X+965DzOOrT7abK4JUBtQgVzbzozsXKp4YF" crossorigin="anonymous">
10  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/umd/popper.min.js" integrity="sha384-ZMPR7tVo5yVFQWPhossalXqK6a" crossorigin="anonymous">
11  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+XKXnZJn8ZIuXtE8gF1rtmM1G0esR+J6QZn+L8O0r4J6Q+P" crossorigin="anonymous">
12
13 <body>
14   <nav class="navbar navbar-expand-lg navbar-light bg-light">
15     <a class="navbar-brand" href="#">Bienvenido</a>
16     <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
17       <span class="navbar-toggler-icon"></span>
18     </button>
19     <div class="collapse navbar-collapse" id="navbarNav">
20       <ul class="navbar-nav">
21         <li class="nav-item active">
22           <a class="nav-link" href="/PracticaJSPYJEE/ModificarTelefonoServlet?accion=Listar">Listar Telefono</a>
23         </li>
24         <li class="nav-item">
25           <a class="nav-link" href="/PracticaJSPYJEE/ModificarTelefonoServlet?accion=Registrar">Registrar Telefono</a>
26         </li>
27         <li class="nav-item">
28           <a class="nav-link" href="/PracticaJSPYJEE/ModificarTelefonoServlet?accion=Eliminar">Eliminar Telefono</a>
29         </li>
30       </ul>
31     </div>
32   </nav>
33   <div>
34     <h2>Modificar Telefono</h2>
35   </div>
36   <form method="POST" action="/PracticaJSPYJEE/ModificarTelefonoServlet">
37     <div>
38       <label for="numero">Id: (*)</label>
39       <input type="text" id="id" name="id" placeholder="Ingrese el numero telefono ..."/>
40       <br>
41       <label for="numero">Número: (*)</label>
42       <input type="text" id="numero" name="numero" minlength="10" maxlength="10" placeholder="Ingrese el numero telefono ..."/>
43       <br>
44       <label for="telefono">A: $</label>
45       <input type="text" id="telefono" name="telefono" placeholder="Ingrese el numero telefono ..."/>
46       <br>
47       <label for="tipo">Tipo: (*)</label>
48       <input type="text" id="tipom" name="tipom" placeholder="Ingrese tipo de telefono ..."/>
49       <br>
50       <label for="operadora">Operadora: (*)</label>
51       <input type="text" id="operadoram" name="operadoram" placeholder="Ingrese la operadora ..."/>
52       <br>
53       <input type="submit" id="modificar" name="accion" value="Modificar" />
54       <input type="reset" id="cancelar" name="cancelar" value="Cancelar" />
55     </div>
56   </form>
57 </body>
58 </html>

```

eclipse - PracticaJSPYJEE/WebContent/JSPs/ModificarTelefono.jsp - Eclipse IDE

```

29       <li class="nav-item">
30         <a class="nav-link" href="/PracticaJSPYJEE/ModificarTelefonoServlet?accion=Eliminar">Eliminar Telefono</a>
31       </li>
32     </ul>
33   </div>
34   <div>
35     <h2>Modificar Telefono</h2>
36   </div>
37   <form method="POST" action="/PracticaJSPYJEE/ModificarTelefonoServlet">
38     <div>
39       <label for="numero">Id: (*)</label>
40       <input type="text" id="id" name="id" placeholder="Ingrese el numero telefono ..."/>
41       <br>
42       <label for="numero">Número: (*)</label>
43       <input type="text" id="numero" name="numero" minlength="10" maxlength="10" placeholder="Ingrese el numero telefono ..."/>
44       <br>
45       <label for="telefono">A: $</label>
46       <input type="text" id="telefono" name="telefono" placeholder="Ingrese el numero telefono ..."/>
47       <br>
48       <label for="tipo">Tipo: (*)</label>
49       <input type="text" id="tipom" name="tipom" placeholder="Ingrese tipo de telefono ..."/>
50       <br>
51       <label for="operadora">Operadora: (*)</label>
52       <input type="text" id="operadoram" name="operadoram" placeholder="Ingrese la operadora ..."/>
53       <br>
54       <input type="submit" id="modificar" name="accion" value="Modificar" />
55       <input type="reset" id="cancelar" name="cancelar" value="Cancelar" />
56     </div>
57   </form>
58 </body>

```

Interfaz Publica

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

The screenshot displays two instances of the Eclipse IDE interface, both titled "eclipse - PracticaJSPYEE/WebContent/JSPs/Publicca.jsp - Eclipse IDE".

Top Window (Publicca.jsp):

- Project Explorer:** Shows the project structure with nodes like "BaseDatos", "EjemploPersonasV", "Holamundo", "JSPlatillo", "JSPractica1", "PracticaIEE", "PracticaJSPYEE", "Deployment C", "JAX-WS Web S", "Java Resource", "JavaScript Res", "build", "WebContent" (containing "css", "html", "imagenes", and "JSPs" folder), and "META-INF" and "WEB-INF".
- Code Editor:** Displays the JSP code for "Publicca.jsp". The code includes imports for JSTL and Bootstrap, a header section with a logo and navigation bar, and a main content area.
- Right Panel:** Shows a call hierarchy diagram for the selected code.
- Bottom Bar:** Includes tabs for "Markers", "Properties", "Servers", "Console", "Snippets", and "Data Source Explorer", along with status indicators for "Writable", "Smart Insert", and "1:1:0".

Bottom Window (jsp.directive.page):

- Project Explorer:** Shows the same project structure as the top window.
- Code Editor:** Displays the JSP code for "jsp.directive.page". This file contains a single line of code: "<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>".
- Right Panel:** Shows a call hierarchy diagram for the selected code.
- Bottom Bar:** Includes tabs for "Markers", "Properties", "Servers", "Console", "Snippets", and "Data Source Explorer", along with status indicators for "Writable", "Smart Insert", and "1:1:0".

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSPYJEE/WebContent/JSPs/Publicca.jsp - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer
Publicca.jsp
48 <?> <form><?
49 </div><div>
50 </div><div>
51 </nav><div>
52 <div><table class="table table-hover"><thead>
53 <tr><th> ID</th><th> Numero</th><th> Tipo</th><th> Operadora </th><th> Cedula </th></tr></thead>
54 <tbody>
55 <tr><td> ${tel.getId()}</td>
56 <td> ${tel.getNumero()}</td>
57 <td> ${tel.getTipo()}</td>
58 <td> ${tel.getOperadora()}</td>
59 <td> ${tel.getUsuario_cedula()}</td>
60 </tr></tbody></table>
61 </div></div>
62 </body></html>
63 <c:forEach var="tel" items="${telefono}">
64 <tr>
65 <td> ${tel.getId()}</td>
66 <td> ${tel.getNumero()}</td>
67 <td> ${tel.getTipo()}</td>
68 <td> ${tel.getOperadora()}</td>
69 <td> ${tel.getUsuario_cedula()}</td>
70 </tr>
71 </c:forEach>
72 </tbody></table>
73 </div>
74 </div>
75 </div>
76 </body></html>
<

```

Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

jsdirective.page

Windows Taskbar: Internet Explorer, Firefox, File Explorer, Google Chrome, Microsoft Word, Eclipse IDE icon.

Registra Teléfono

eclipse - PracticaJSPYJEE/WebContent/JSPs/RegistrarTelefono.jsp - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer
RegistrarTelefono.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <%@ pageEncoding="ISO-8859-1" %>
3 <%>
4 <!DOCTYPE html>
5 <html>
6 <head>
7 <meta charset="ISO-8859-1">
8 <title>Registrar Telefono</title>
9 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw9KwqZq2Qfz&lt;...&gt;">
10 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK4iJStQIAqVgRVzpbzo5smXKp4YF&lt;...&gt;">
11 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3MyLyV&lt;...&gt;">
12 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfquzuZUcnJSK3&lt;...&gt;">
13 </head>
14 <body>
15 <nav class="navbar navbar-expand-lg navbar-light bg-light">
16 <div class="collapse navbar-collapse" id="navbarSupportedContent">
17 <a class="navbar-brand" href="#">Bienvenido</a>
18 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-ex
19 <span class="navbar-toggler-icon"></span>
20 </button>
21 <div class="collapse navbar-collapse" id="navbarSupportedContent">
22 <ul class="navbar-nav">
23 <li class="nav-item active">
24 <a class="nav-link" href="/PracticaJSPYJEE/InsertarTelefonoServlet?accion=Listar" >Listar Telefono</a>
25 </li>
26 <li class="nav-item">
27 <a class="nav-link" href="/PracticaJSPYJEE/InsertarTelefonoServlet?accion=Modificar">Modificar Telefono</a>
28 </li>
29 <li class="nav-item">
30 <a class="nav-link" href="/PracticaJSPYJEE/InsertarTelefonoServlet?accion=Eliminar">Eliminar Telefono</a>
<

```

Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

Windows Taskbar: Internet Explorer, Firefox, File Explorer, Google Chrome, Microsoft Word, Eclipse IDE icon.

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PrácticaJSPYEE/WebContent/JSPs/RegistraTelefono.jsp - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer CSS Call Hierarchy View
RegistraTelefono.jsp
26 <li class="nav-item">
27   <a class="nav-link" href="/PrácticaJSPYEE/InsertarTelefonoServlet?accion=Modificar">Modificar Telefono</a>
28 </li>
29 <li class="nav-item">
30   <a class="nav-link" href="/PrácticaJSPYEE/InsertarTelefonoServlet?accion=Eliminar">Eliminar Telefono</a>
31 </li>
32 </ul>
33 </div>
34 </div>
35 </nav>
36 <h1>Formulario</h1>
37 <form action="/PrácticaJSPYEE/InsertarTelefonoServlet" method="post" >
38   <label for="numero">Número:</label>
39   <input type="text" id="numero" name="numero" minlength="10" maxlength="10" />
40   <br/>
41   <label for="tipo">Tipo:</label>
42   <input type="text" id="tipo" name="tipo" />
43   <br/>
44   <label for="operadora">Operadora:</label>
45   <input type="text" id="operadora" name="operadora" />
46   <br/>
47   <input type="submit" id="crear" value="Ingresar" name="accion" />
48 </form>
49 </body>
50 </html>
51
52
53 </div>
54 </body>
55 </html>

```

Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

Writable Smart Insert 1:1:0

Windows Taskbar: 13:00 07/05/2020

Teléfono Pagina Principal

eclipse - PrácticaJSPYEE/WebContent/JSPs/Telefono.jsp - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer CSS Call Hierarchy View
Telefono.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <%@ pageEncoding="ISO-8859-1" %>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <!DOCTYPE html>
5 <html>
6 <head>
7   <meta charset="ISO-8859-1">
8   <title>Bienvenido Usuario</title>
9   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0ixywK2PbZqDnQeXzqoCfD7tLHhZ07N6i1LCsExm0XkxKuZ8P9jvZo5mXKp4YfF" crossorigin="anonymous">
10  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Ds0rT7abK4iJStQIAqVgRVpbzo5smXKp4YfF" crossorigin="anonymous"></script>
11  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-UOeTfOVSxVBFQJ+YXqDB6j4KJH0EbciGSpb8OGqoQwJ+0vxE6U9M5708G1Q" crossorigin="anonymous"></script>
12  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-J3JiHivO+Q1qxXJaY0iqq/4KLXrWfB7M1qoCxtwYOdl3uGzqoKPCW1M44Phydr" crossorigin="anonymous"></script>
13 </head>
14 <body>
15 <nav class="navbar navbar-expand-lg navbar-light bg-light">
16   <a class="navbar-brand" href="#">Bienvenido</a>
17   <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
18     <span class="navbar-toggler-icon"></span>
19   </button>
20   <div class="collapse navbar-collapse" id="navbarNav">
21     <ul class="navbar-nav">
22       <li class="nav-item active">
23         <a class="nav-link" href="ListarTelefono.jsp" >Listar Telefono</a>
24       </li>
25       <li class="nav-item">
26         <a class="nav-link" href="ModificarTelefono.jsp">Modificar Telefono</a>
27       </li>
28       <li class="nav-item">
29         <a class="nav-link" href="RegistrarTelefono.jsp">Registrar Telefono</a>
30       </li>
31     </ul>
32   </div>
33 </nav>
34 <div style="text-align: center; margin-top: 20px;">
35   <h1>BIENVENIDO</h1>
36   <p>Este es el sistema para manejar los teléfonos de la universidad. Puedes registrar, modificar o eliminar teléfonos.</p>
37 </div>
38 <div style="text-align: center; margin-top: 20px;">
39   <img alt="Logo de la Universidad Politécnica Salesiana" style="width: 150px; height: auto;">
40 </div>
41 </body>
42 </html>

```

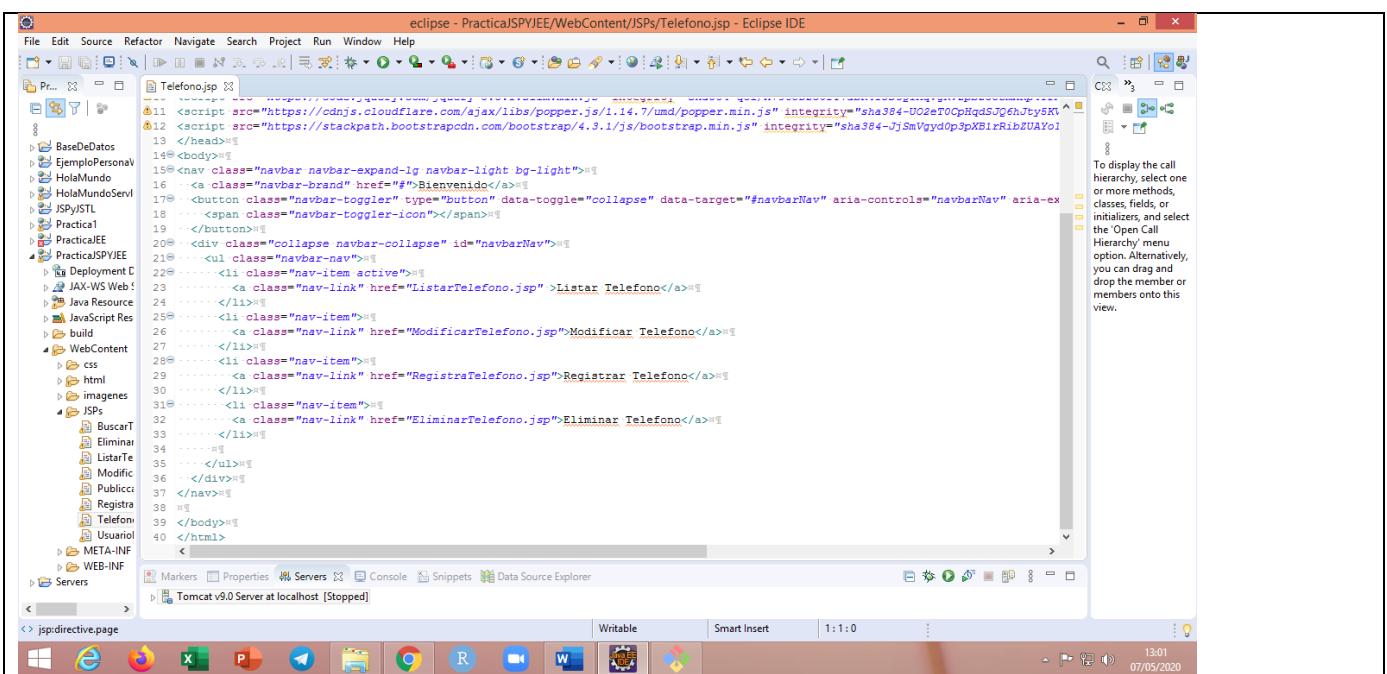
Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

Writable Smart Insert 1:1:0

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Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación



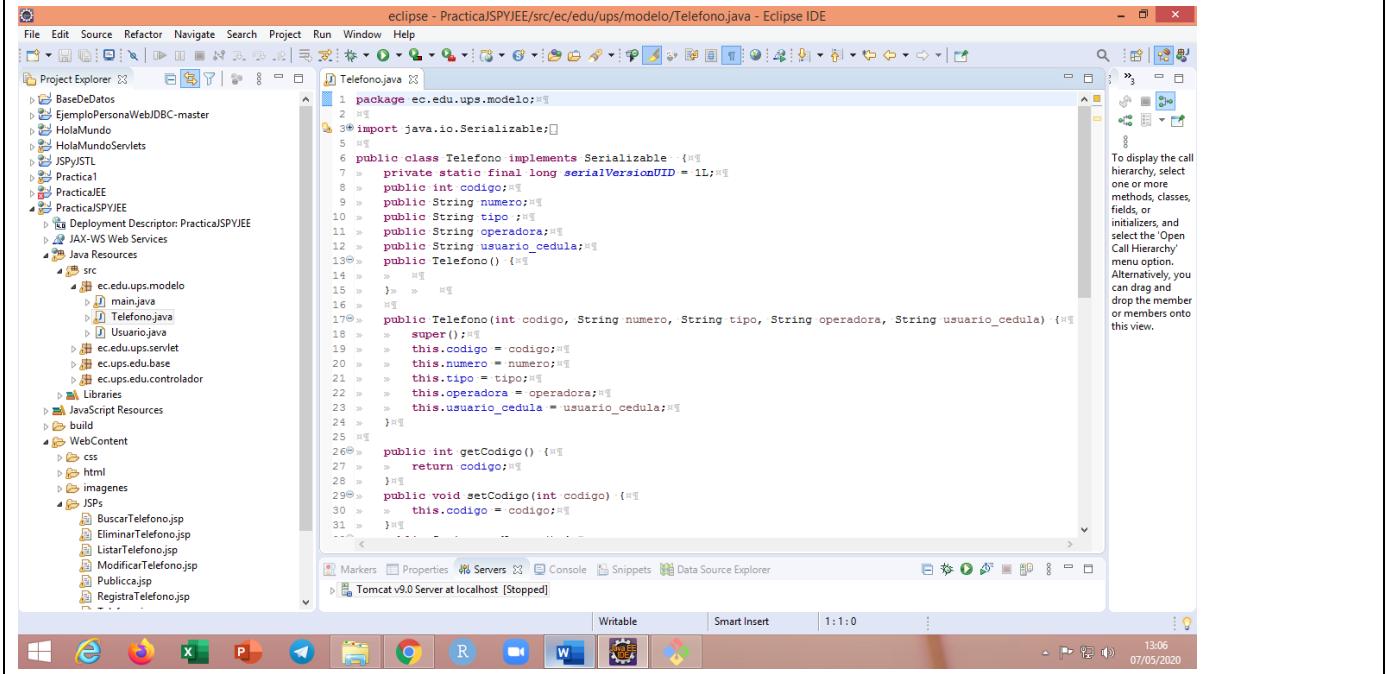
```

eclipse - PracticaJSPYEE/WebContent/JSPs/Telefono.jsp - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer
Telefon.jsp
<head>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UQ2eT0OpHqdSJQ6hJy8K1^
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JSmVgydp3pXBirRibZUAVo1^
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
    <a class="navbar-brand" href="#">Bienvenido</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-ex^
    <span class="navbar-toggler-icon"></span>
<div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
        <li class="nav-item active">
            <a class="nav-link" href="ListarTelefono.jsp">Listar Telefono</a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="ModificarTelefono.jsp">Modificar Telefono</a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="RegistrarTelefono.jsp">Registrar Telefono</a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="EliminarTelefono.jsp">Eliminar Telefono</a>
        </li>
    </ul>
</div>
</nav>
<div class="container">
    <h1>Listado de Teléfonos</h1>
    <table border="1">
        <thead>
            <tr>
                <th>ID</th>
                <th>Número</th>
                <th>Operadora</th>
                <th>Tipo</th>
                <th>Usuario Cédula</th>
            </tr>
        <tbody>
            <tr>
                <td>1</td>
                <td>1234567890</td>
                <td>Movistar</td>
                <td>Fijo</td>
                <td>1234567890</td>
            </tr>
            <tr>
                <td>2</td>
                <td>9876543210</td>
                <td>Claro</td>
                <td>Móvil</td>
                <td>9876543210</td>
            </tr>
            <tr>
                <td>3</td>
                <td>1111111111</td>
                <td>Ecutel</td>
                <td>Fijo</td>
                <td>1111111111</td>
            </tr>
        </tbody>
    </table>
    <div>
        <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#nuevoModal">Nuevo</button>
        <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#editarModal">Editar</button>
        <button type="button" class="btn btn-primary" data-toggle="modal" data-target="#eliminarModal">Eliminar</button>
    </div>
</div>
</div>
</body>
</html>

```

Capturas de Modelo

Persona



```

eclipse - PracticaJSPYEE/src/ec/edu/ups/modelo/Telefono.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Properties Servers Data Source Explorer
Telefono.java
1 package ec.edu.ups.modelo;
2
3 import java.io.Serializable;
4
5 public class Telefono implements Serializable {
6     private static final long serialVersionUID = 1L;
7     public int codigo;
8     public String numero;
9     public String tipo;
10    public String operadora;
11    public String usuario_cedula;
12    public Telefono() {
13        }
14    }
15    }
16    }
17    public Telefono(int codigo, String numero, String tipo, String operadora, String usuario_cedula) {
18        super();
19        this.codigo = codigo;
20        this.numero = numero;
21        this.tipo = tipo;
22        this.operadora = operadora;
23        this.usuario_cedula = usuario_cedula;
24    }
25    }
26    public int getCodigo() {
27        return codigo;
28    }
29    public void setCodigo(int codigo) {
30        this.codigo = codigo;
31    }

```

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eclipse - PracticaJSPYEE/src/ec/edu/ups/modelo/Telefono.java - Eclipse IDE

```

34 >     }
35 >     public void setNumero(String numero) {
36 >         this.numero = numero;
37 >     }
38 >     public String getTipo() {
39 >         return tipo;
40 >     }
41 >     public void setTipo(String tipo) {
42 >         this.tipo = tipo;
43 >     }
44 >     public String getOperadora() {
45 >         return operadora;
46 >     }
47 >     public void setOperadora(String operadora) {
48 >         this.operadora = operadora;
49 >     }
50 > }
51 >
52 >     public String getUsuario_cedula() {
53 >         return usuario_cedula;
54 >     }
55 >     public void setUsuario_cedula(String usuario_cedula) {
56 >         this.usuario_cedula = usuario_cedula;
57 >     }
58 >     @Override
59 >     public String toString() {
60 >         return "Telefono [codigo=" + codigo + ", numero=" + numero + ", tipo=" + tipo + ", operadora=" +
61 >             " " + ", usuario_cedula=" + usuario_cedula + "]";
62 >     }
63 >

```

Project Explorer Properties Servers Console Snippets Data Source Explorer

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Windows Taskbar: 13:06 07/05/2020

Teléfono

eclipse - PracticaJSPYEE/src/ec/edu/ups/modelo/Usuario.java - Eclipse IDE

```

1 package ec.edu.ups.modelo;
2 import java.io.Serializable;
3
4 public class Usuario implements Serializable {
5     private static final long serialVersionUID = 1L;
6     public String cedula;
7     public String nombre;
8     public String apellido;
9     public String correo;
10    public String contrasenia;
11
12    public Usuario() {
13    }
14
15    }
16
17    }
18
19    public Usuario(String cedula, String nombre, String apellido, String correo, String contrasenia) {
20        this.cedula = cedula;
21        this.nombre = nombre;
22        this.apellido = apellido;
23        this.correo = correo;
24        this.contrasenia = contrasenia;
25    }
26
27    public String getCedula() {
28        return cedula;
29    }
30
31    public void setCedula(String cedula) {
32        this.cedula = cedula;
33    }

```

Project Explorer Properties Servers Console Snippets Data Source Explorer

Markers Writable Smart Insert 1:1:0

Windows Taskbar: 13:06 07/05/2020

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSFJEE/src/ec/edu/ups/modelo/Usuario.java - Eclipse IDE

```

public void setCedula(String cedula) {%
    this.cedula = cedula;%
}
public String getNombre() {%
    return nombre;%
}
public void setNombre(String nombre) {%
    this.nombre = nombre;%
}
public String getApellido() {%
    return apellido;%
}
public void setApellido(String apellido) {%
    this.apellido = apellido;%
}
public String getCorreo() {%
    return correo;%
}
public void setCorreo(String correo) {%
    this.correo = correo;%
}
public String getContrasenia() {%
    return contrasenia;%
}
public void setContrasenia(String contrasenia) {%
    this.contrasenia = contrasenia;%
}
@Override
public String toString() {%
    return "Usuario [cedula=" + cedula + ", nombre=" + nombre + ", apellido=" + apellido + ", correo=" + correo + ", contrasenia=" + contrasenia + "]";%
}

```

Project Explorer Properties Servers Console Snippets Data Source Explorer

Writable Smart Insert 1:1:0

Windows Taskbar: 13:06 07/05/2020

Captura de los Servlet.

eclipse - PracticaJSFJEE/src/ec/edu/ups/servlet/BuscarPorCedulaServlet.java - Eclipse IDE

```

@WebServlet("/BuscarPorCedulaServlet")
public class BuscarPorCedulaServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    TelefonoDAO dao = DAOFactory.getFactory().getTelefonoDAO();
    Telefono telefono=new Telefono();
    public BuscarPorCedulaServlet() {
        super();
    }
    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        String accion=request.getParameter("accion");
        switch (accion) {
            case "Iniciar":
                System.out.println("shdbsdhfbshfsfh");
                response.sendRedirect("PracticaJSFJEE/html/index.html");
                //request.getRequestDispatcher("../html/index.html").forward(request, response);
            default:
                break;
        }
    }
}
```

Project Explorer Properties Servers Console Snippets Data Source Explorer

Writable Smart Insert 1:1:0

Windows Taskbar: 13:09 07/05/2020

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSPYEE/src/ec/edu/ups/servlet/BuscarPorCedulaServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
src
  BaseDatos
  EjemploPersonalWeb
  Holamundo
  HolamundoServlets
  JSPyJSTL
  Practica1
  PracticaJE
  PracticaJSPYEE
    Deployment Descriptor
    JAX-WS Web Services
    Java Resource
      src
        ec.edu
          main
          Telef
          Usua
        ec.edu
          Busc
          Elim
          Inici
          Insert
          Listar
          ListT
          Modif
        ec.upse
        ec.upse
      Libraries
      JavaScript Resources
      build
      WebContent
        css
Markers Properties Servers Console Snippets Data Source Explorer
Tomcat v9.0 Server at localhost [Stopped]

```

```

41 >   String accion=request.getParameter("accion");
42 >   switch (accion) { >     >
43 >     case "Iniciar":>
44 >       System.out.println("shdbsdhfbshfbshfbsh");
45 >       response.sendRedirect("PracticaJSPYEE/html/index.html");
46 >       //request.getRequestDispatcher("../html/index.html").forward(request, response);
47 >     default:>
48 >       break;
49 >   } >   >
50 > } > >
51 > >
52 > /**
53 > * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
54 > */
55 > protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
56 >   // TODO Auto-generated method stub
57 >   String accion=request.getParameter("accion");
58 >   String dato=request.getParameter("buscar");
59 >   switch (accion) {
60 >     case "Buscar":>
61 >       List<Telefono>lista=dao.findByUserId(dato);
62 >       request.setAttribute("telefono", lista);
63 >       request.getRequestDispatcher("/JSPs/Publicca.jsp").forward(request, response);
64 >       break;
65 >   }
66 >   >
67 > } > >
68 > >
69 > >
70 > } > >
71 > <

```

Writable Smart Insert 1:1:0 ... 13:09 07/05/2020

Eliminar Teléfono Servlet.

eclipse - PracticaJSPYEE/src/ec/edu/ups/servlet/EliminarTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
src
  BaseDatos
  EjemploPersonalWeb-DBC-master
  Holamundo
  HolamundoServlets
  JSPyJSTL
  Practica1
  PracticaJE
  PracticaJSPYEE
    Deployment Descriptor: PracticaJSPYEE
    JAX-WS Web Services
    Java Resources
    src
      ec.edu.upsm.modelo
        mainjava
        Telefono.java
        Usuario.java
      ec.edu.upsm.servlet
        BuscarPorCedulaServlet.java
        EliminarTelefonoServlet.java
        IniciarSessionServlet.java
        InsertarTelefonoServlet.java
        ListarTelefonosServlet.java
        ListarTelefonoServlet.java
        ModificarTelefonoServlet.java
      ec.upsm.base
      ec.upsm.controlador
      Libraries
      JavaScript Resources
      build
      WebContent
        css
        html
        imagenes
Markers Properties Servers Console Snippets Data Source Explorer
Tomcat v9.0 Server at localhost [Stopped]

```

```

35 >   protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException {
36 >     String accion=request.getParameter("accion");
37 >     switch (accion) { >       >
38 >       case "Listar":>
39 >         System.out.println("shdbsdhfbshfbshfbsh");
40 >         response.sendRedirect("PracticaJSPYEE/JSPs>ListarTelefono.jsp");
41 >         //request.getRequestDispatcher("../html/index.html").forward(request, response);
42 >         break;
43 >       case "Modificar":>
44 >         System.out.println("shdbsdhfbshfbshfbsh");
45 >         response.sendRedirect("PracticaJSPYEE/JSPs/ModificarTelefono.jsp");
46 >         //request.getRequestDispatcher("../html/index.html").forward(request, response);
47 >         break;
48 >       >
49 >       case "Registrar":>
50 >         System.out.println("shdbsdhfbshfbshfbsh");
51 >         response.sendRedirect("PracticaJSPYEE/JSPs/RegistrarTelefono.jsp");
52 >         //request.getRequestDispatcher("../html/index.html").forward(request, response);
53 >         break;
54 >       default:>
55 >         break;
56 >     }
57 >   } > >
58 > >
59 > /**
60 > * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
61 > */
62 > >
63 > protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException {
64 >   // TODO Auto-generated method stub

```

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eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/EliminarTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer EliminarTelefonoServlet.java
src
  ec.edu.ups.modelo
    main.java
    Telefono.java
    Usuario.java
  ec.edu.ups.servlet
    BuscarPorCedulaServlet.java
    EliminarTelefonoServlet.java
    IniciarSesionServlet.java
    InsertarTelefonoServlet.java
    ListaTelefonoServlet.java
    ListTelefonoServlet.java
    ModificarTelefonoServlet.java
    ec.ups.edu.base
    ec.ups.edu.controlador
    Libraries
  Java Resources
  JavaScript Resources
  build
  WebContent
    css
    html
    imagenes
  Tomcat v9.0 Server at localhost [Stopped]
  Markers Properties Servers Console Snippets Data Source Explorer
  Writable Smart Insert 58:6 1999
  13:10 07/05/2020
  
```

To display the call hierarchy, select one or more methods, classes, fields, or initializers, and select the 'Open Call Hierarchy' menu option. Alternatively, you can drag and drop the member or members onto this view.

```

47 > > > > break;
48 > > > > case "Registrar":>
49 > > > > System.out.println("shdbsdhfbshfbshf");>
50 > > > > response.sendRedirect("/PracticaJSPYJEE/JSPs/RegistraTelefono.jsp");>
51 > > > > 
52 > > > > default:>
53 > > > > //request.getRequestDispatcher("../html/index.html").forward(request, response);>
54 > > > > break;
55 > > > > default:>
56 > > > > break;> > > >
57 > }>
58 > 
59 > /**
60 > * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
61 > */
62 > protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException {
63 > > // TODO Auto-generated method stub
64 > > String action=request.getParameter("accion");
65 > > int id=Integer.valueOf(request.getParameter("id"));
66 > > Dao.setCodigo(id);
67 > > dao.delete(telefono);
68 > > //request.setAttribute("telefono", lista);
69 > > request.getRequestDispatcher("/JSPs/EliminarTelefono.jsp").forward(request, response);
70 > > 
71 > }>
72 > 
73 > }
74 > 
75 }>
76 >
  
```

Iniciar Sesión Servlet

eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/IniciarSesionServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer IniciarSesionServlet.java
src
  ec.edu.ups.modelo
    main.java
    Telefono.java
    Usuario.java
  ec.edu.ups.servlet
    BuscarPorCedulaServlet.java
    EliminarTelefonoServlet.java
    IniciarSesionServlet.java
    InsertarTelefonoServlet.java
    ListaTelefonoServlet.java
    ListTelefonoServlet.java
    ModificarTelefonoServlet.java
    ec.ups.edu.base
    ec.ups.edu.controlador
    Libraries
  Java Resources
  JavaScript Resources
  build
  WebContent
    css
    html
    imagenes
  Tomcat v9.0 Server at localhost [Stopped]
  Markers Properties Servers Console Snippets Data Source Explorer
  Writable Smart Insert 1:1:0
  13:11 07/05/2020
  
```

To display the call hierarchy, select one or more methods, classes, fields, or initializers, and select the 'Open Call Hierarchy' menu option. Alternatively, you can drag and drop the member or members onto this view.

```

36 > /**
37 > * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException
38 > > // TODO Auto-generated method stub
39 > > 
40 > }>
41 > 
42 > /**
43 > * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException
44 > */
45 > protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException {
46 > > HttpSession session=request.getSession(true);
47 > > String accion=request.getParameter("accion");
48 > > 
49 > > String user=request.getParameter("nombre");
50 > > String contra=request.getParameter("contra");
51 > > pdao.validar(user, contra);
52 > > String cedula=p.getCedula();
53 > > String visualizar=p.getNombre();
54 > > if (p.getCorreo() != null) {
55 > > > request.getSession().setAttribute("nombre", cedula);
56 > > > request.getSession().setAttribute("usuario", user);
57 > > > response.sendRedirect(request.getContextPath() + "/JSPs/Telefono.jsp?nombre=" + cedula);
58 > > }>
59 > > else {
60 > > > response.sendRedirect(request.getContextPath() + "/html/index.html");
61 > > }
62 > > 
63 > > 
64 > > 
65 > > 
66 > }>
  
```

Insertar Teléfono Servlet

eclipse - PrácticaSPYJEE/src/ec/edu/ups/servlet/InsertarTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer InsertarTelefonoServlet.java
src
  ec.edu.ups.modelo
    main.java
    Telefono.java
    Usuario.java
  ec.edu.ups.servlet
    BuscarPorCedulaServlet.java
    EliminarTelefonoServlet.java
    IniciarSessionServlet.java
    InsertarTelefonoServlet.java
    ListaTelefonoServlet.java
    ListTelefonoServlet.java
    ModificarTelefonoServlet.java
  ec.ups.edu.base
  ec.ups.edu.controlador
  Libraries
  JavaScript Resources
  build
  WebContent
    css
    html
    imagenes
  Tomcat v9.0 Server at localhost [Stopped]
  13:11 07/05/2020

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    switch (accion) {
        case "Listar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/ListarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        case "Modificar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/ModificarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        case "Eliminar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/EliminarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        default:
            break;
    }
}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    String cedula=request.getParameter("cedula");
    String numero=request.getParameter("numero");
    String tipo=request.getParameter("tipo");
    String operadora=request.getParameter("operadora");
    telefono.setNumero(numero);
    telefono.setTipo(tipo);
    telefono.setOperadora(operadora);
    telefono.setUsuario(cedula);
    String modi=telefono.getNumero();
    System.out.println("cedula:"+cedula);
    System.out.println("numero:"+numero);
    System.out.println("tipo:"+tipo);
    System.out.println("operadora:"+operadora);
    dao.create(telefono);
    request.setAttribute("telefono", modi);
    request.getRequestDispatcher("../JSPs/RegistraTelefono.jsp").forward(request, response);
}

```

eclipse - PrácticaSPYJEE/src/ec/edu/ups/servlet/InsertarTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer InsertarTelefonoServlet.java
src
  ec.edu.ups.modelo
    main.java
    Telefono.java
    Usuario.java
  ec.edu.ups.servlet
    BuscarPorCedulaServlet.java
    EliminarTelefonoServlet.java
    IniciarSessionServlet.java
    InsertarTelefonoServlet.java
    ListaTelefonoServlet.java
    ListTelefonoServlet.java
    ModificarTelefonoServlet.java
  ec.ups.edu.base
  ec.ups.edu.controlador
  Libraries
  JavaScript Resources
  build
  WebContent
    css
    html
    imagenes
  Tomcat v9.0 Server at localhost [Stopped]
  13:11 07/05/2020

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    switch (accion) {
        case "Listar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/ListarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        case "Modificar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/ModificarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        case "Eliminar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PrácticaSPYJEE/JSPs/EliminarTelefono.jsp");
            //request.getRequestDispatcher("../html/index.html").forward(request, response);
            break;
        default:
            break;
    }
}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    String cedula=request.getParameter("cedula");
    String numero=request.getParameter("numero");
    String tipo=request.getParameter("tipo");
    String operadora=request.getParameter("operadora");
    telefono.setNumero(numero);
    telefono.setTipo(tipo);
    telefono.setOperadora(operadora);
    telefono.setUsuario(cedula);
    String modi=telefono.getNumero();
    System.out.println("cedula:"+cedula);
    System.out.println("numero:"+numero);
    System.out.println("tipo:"+tipo);
    System.out.println("operadora:"+operadora);
    dao.create(telefono);
    request.setAttribute("telefono", modi);
    request.getRequestDispatcher("../JSPs/RegistraTelefono.jsp").forward(request, response);
}

```

Listar Teléfono Servlet

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/ListTelefonoServlet.java - Eclipse IDE

```

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    switch (accion) {
        case "Eliminar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/EliminarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        case "Modificar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/ModificarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        case "Registrar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/RegistrarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        default:
            break;
    }
}

/** 
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    if(accion.equals("Modificar")){
        String cedula=request.getParameter("cedula");
        List<Telefono>lista=dao.findByIdUser(cedula);
        request.setAttribute("telefono", lista);
        request.getRequestDispatcher("../JSPs/ModificarTelefono.jsp?accion=Modificar").forward(request, response);
    }else if(accion.equals("Registrar")){
        String cedula=request.getParameter("cedula");
        String numero=request.getParameter("numero");
        ...
    }
}

```

To display the call hierarchy, select one or more methods, classes, fields, or initializers, and select the 'Open Call Hierarchy' menu option. Alternatively, you can drag and drop the member or members onto this view.

eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/ListTelefonoServlet.java - Eclipse IDE

```

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    switch (accion) {
        case "Eliminar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/EliminarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        case "Modificar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/ModificarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        case "Registrar":
            System.out.println("shdbsdhfbshfbshf");
            response.sendRedirect("../PracticaJSPYJEE/JSPs/RegistrarTelefono.jsp");
            //request.getRequestDispatcher("../index.html").forward(request, response);
            break;
        default:
            break;
    }
}

/** 
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    String accion=request.getParameter("accion");
    if(accion.equals("Modificar")){
        String cedula=request.getParameter("cedula");
        List<Telefono>lista=dao.findByIdUser(cedula);
        request.setAttribute("telefono", lista);
        request.getRequestDispatcher("../JSPs/ModificarTelefono.jsp?accion=Modificar").forward(request, response);
    }else if(accion.equals("Registrar")){
        String cedula=request.getParameter("cedula");
        String numero=request.getParameter("numero");
        ...
    }
}

```

To display the call hierarchy, select one or more methods, classes, fields, or initializers, and select the 'Open Call Hierarchy' menu option. Alternatively, you can drag and drop the member or members onto this view.

Modificar Teléfono Servlet

eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/ListTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer ListTelefonoServlet.java
src
  BaseDatos
  EjemploPersonaWeb/DBC-master
  HolaMundo
  HolaMundoServlets
  JSpyJSTL
  Practica1
  PracticaJEE
  PracticaJSPYJEE
    Deployment Descriptor: PracticaJSPYJEE
    JAX-WS Web Services
    Java Resources
      src
        ec.edu.ups.modelo
          main.java
          Telefono.java
          Usuario.java
        ec.edu.ups.servlet
          BuscarPorCedulaServlet.java
          EliminarTelefonoServlet.java
          IniciarSesionServlet.java
          InsertarTelefonoServlet.java
          ListaTelefonoServlet.java
          ListTelefonoServlet.java
          ModificarTelefonoServlet.java
        ec.ups.edu.base
        ec.ups.edu.controlador
      Libraries
    JavaScript Resources
    build
    WebContent
      css
      html
      imagenes
      Tomcat v9.0 Server at localhost [Stopped]
      Markers Properties Servers Console Snippets Data Source Explorer
      Writable Smart Insert 1:1:0
      13:12 07/05/2020
  
```

eclipse - PracticaJSPYJEE/src/ec/edu/ups/servlet/ModificarTelefonoServlet.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer ModificarTelefonoServlet.java
src
  JSpyJSTL
  Practica1
  PracticaJEE
  PracticaJSPYJEE
    Deployment Descriptor: PracticaJSPYJEE
    JAX-WS Web Services
    Java Resources
      src
        ec.edu.ups.modelo
          main.java
          Telefono.java
          Usuario.java
        ec.edu.ups.servlet
          BuscarPorCedulaServlet.java
          EliminarTelefonoServlet.java
          IniciarSesionServlet.java
          InsertarTelefonoServlet.java
          ListaTelefonoServlet.java
          ListTelefonoServlet.java
          ModificarTelefonoServlet.java
        ec.ups.edu.base
        ec.ups.edu.controlador
      Libraries
    JavaScript Resources
    build
    WebContent
      css
      html
      imagenes
      JSps
        BuscarTelefono.jsp
        EliminarTelefono.jsp
        ListarTelefono.jsp
      Tomcat v9.0 Server at localhost [Stopped]
      Markers Properties Servers Console Snippets Data Source Explorer
      Writable Smart Insert 1:1:0
      13:13 07/05/2020
  
```

Código de Base de Datos

Conexión a la Base.

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PracticaJSPJEE/src/ec/ups/edu/base/ContextJDBC.java - Eclipse IDE

```

1 package ec.ups.edu.base;
2
3 import java.sql.Connection;
4
5 public class ContextJDBC {
6
7     private static final String DRIVER = "com.mysql.cj.jdbc.Driver";
8     private static final String URL = "jdbc:mysql://localhost:3306/guias";
9     private static final String USER = "root";
10    private static final String PASS = "admin";
11    private static ContextJDBC jdbc1 = null;
12    private static ContextJDBC jdbc2 = null;
13    private Statement statement = null;
14
15    public ContextJDBC() {
16        try {
17            this.connect();
18        } catch (Exception e) {
19            System.out.println("Error al conectar con la BD");
20        }
21    }
22
23    /**
24     * Método connect.
25     */
26    /**
27     * Realiza una conexión a la base de datos a través de JDBC.
28     */
29    public void connect() {
30        try {
31            Class.forName(DRIVER);
32            Connection connection = DriverManager.getConnection(URL, USER, PASS);
33            this.statement = connection.createStatement();
34
35            System.out.println("Conexión Exitosa");
36        } catch (ClassNotFoundException e) {
37            System.out.println(">>>WARNING (JDBC:connect)...problemas con el driver\n" + e.getMessage());
38        } catch (SQLException e) {
39            System.out.println(">>>WARNING (JDBC:connect)...problemas con la BD\n" + e.getMessage());
40        }
41    }
42
43    /**
44     * Método query.
45     */
46    /**
47     * Realiza una sentencia SELECT a la base de datos.
48     */
49    public ResultSet query(String sql) {
50        try {
51            return this.statement.executeQuery(sql);
52        } catch (SQLException e) {
53            System.out.println(">>>WARNING (JDBC mala sentencia:query): ---" + sql + "----" + e);
54        }
55        return null;
56    }
57
58    /**
59     * Método update.
60     */

```

Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

Writable Smart Insert 1:1:0

13:15 07/05/2020

eclipse - PracticaJSPJEE/src/ec/ups/edu/base/ContextJDBC.java - Eclipse IDE

```

29    public void connect() {
30        try {
31            Class.forName(DRIVER);
32            Connection connection = DriverManager.getConnection(URL, USER, PASS);
33            this.statement = connection.createStatement();
34
35            System.out.println("Conexión Exitosa");
36        } catch (ClassNotFoundException e) {
37            System.out.println(">>>WARNING (JDBC:connect)...problemas con el driver\n" + e.getMessage());
38        } catch (SQLException e) {
39            System.out.println(">>>WARNING (JDBC:connect)...problemas con la BD\n" + e.getMessage());
40        }
41    }
42
43    /**
44     * Método query.
45     */
46    /**
47     * Realiza una sentencia SELECT a la base de datos.
48     */
49    public ResultSet query(String sql) {
50        try {
51            return this.statement.executeQuery(sql);
52        } catch (SQLException e) {
53            System.out.println(">>>WARNING (JDBC mala sentencia:query): ---" + sql + "----" + e);
54        }
55        return null;
56    }
57
58    /**
59     * Método update.
60     */

```

Markers Properties Servers Console Snippets Data Source Explorer

Tomcat v9.0 Server at localhost [Stopped]

Writable Smart Insert 1:1:0

13:15 07/05/2020

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

eclipse - PrácticaJSPYJEE/src/ec/ups/edu/base/ContextJDBC.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer ContextJDBC.java
src
  ec.edu.ups.modelo
  ec.edu.ups.servlet
  ec.ups.edu.base
    ContextJDBC.java
    JDBCGenericDAO.java
    JDBCPersonaDAO.java
    JDBCTelefonoDAO.java
  ec.ups.edu.controlador
Libraries
Java Resources
Build
WebContent
  CSS
  HTML
  Imagenes
  JSps
    BuscarTelefono.jsp
    EliminarTelefono.jsp
    ListarTelefono.jsp
    ModificarTelefono.jsp
    Publicacion.jsp
    RegistrarTelefono.jsp
  Tomcat v9.0 Server at localhost [Stopped]
  Markers Properties Servers Console Snippets Data Source Explorer
  Writable Smart Insert 1:1:0
  13:15 07/05/2020

  * * *
  public boolean update(String sql) {
    try {
      this.statement.executeUpdate(sql);
      return true;
    } catch (SQLException e) {
      System.out.println(">>>WARNING (JDBC:update)... actualización: ---" + sql + "----" + e);
      return false;
    }
  }

  /**
   * Método getJDBC.
   *
   * Obtiene una conexión activa a la base de datos
   */
  protected static ContextJDBC getJDBC1() {
    // creación de la conexión a la base de datos solo si no ha sido creada patrón
    // de diseño singleton
    if (jdbcTemplate == null) {
      jdbcTemplate = new ContextJDBC();
    }
    return jdbcTemplate;
  }

  /**
   * Método getJDBC.
   */
  protected static ContextJDBC getJDBC2() {
    // creación de la conexión a la base de datos solo si no ha sido creada patrón
    // de diseño singleton
    if (jdbcTemplate2 == null) {
      jdbcTemplate2 = new ContextJDBC();
    }
    return jdbcTemplate2;
  }

```

eclipse - PrácticaJSPYJEE/src/ec/ups/edu/base/ContextJDBC.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer ContextJDBC.java
src
  ec.edu.ups.modelo
  ec.edu.ups.servlet
  ec.ups.edu.base
    ContextJDBC.java
    JDBCGenericDAO.java
    JDBCPersonaDAO.java
    JDBCTelefonoDAO.java
  ec.ups.edu.controlador
Libraries
Java Resources
Build
WebContent
  CSS
  HTML
  Imagenes
  JSps
    BuscarTelefono.jsp
    EliminarTelefono.jsp
    ListarTelefono.jsp
    ModificarTelefono.jsp
    Publicacion.jsp
    RegistrarTelefono.jsp
  Tomcat v9.0 Server at localhost [Stopped]
  Markers Properties Servers Console Snippets Data Source Explorer
  Writable Smart Insert 1:1:0
  13:15 07/05/2020

  * * *
  public boolean update(String sql) {
    try {
      this.statement.executeUpdate(sql);
      return true;
    } catch (SQLException e) {
      System.out.println(">>>WARNING (JDBC:update)... actualización: ---" + sql + "----" + e);
      return false;
    }
  }

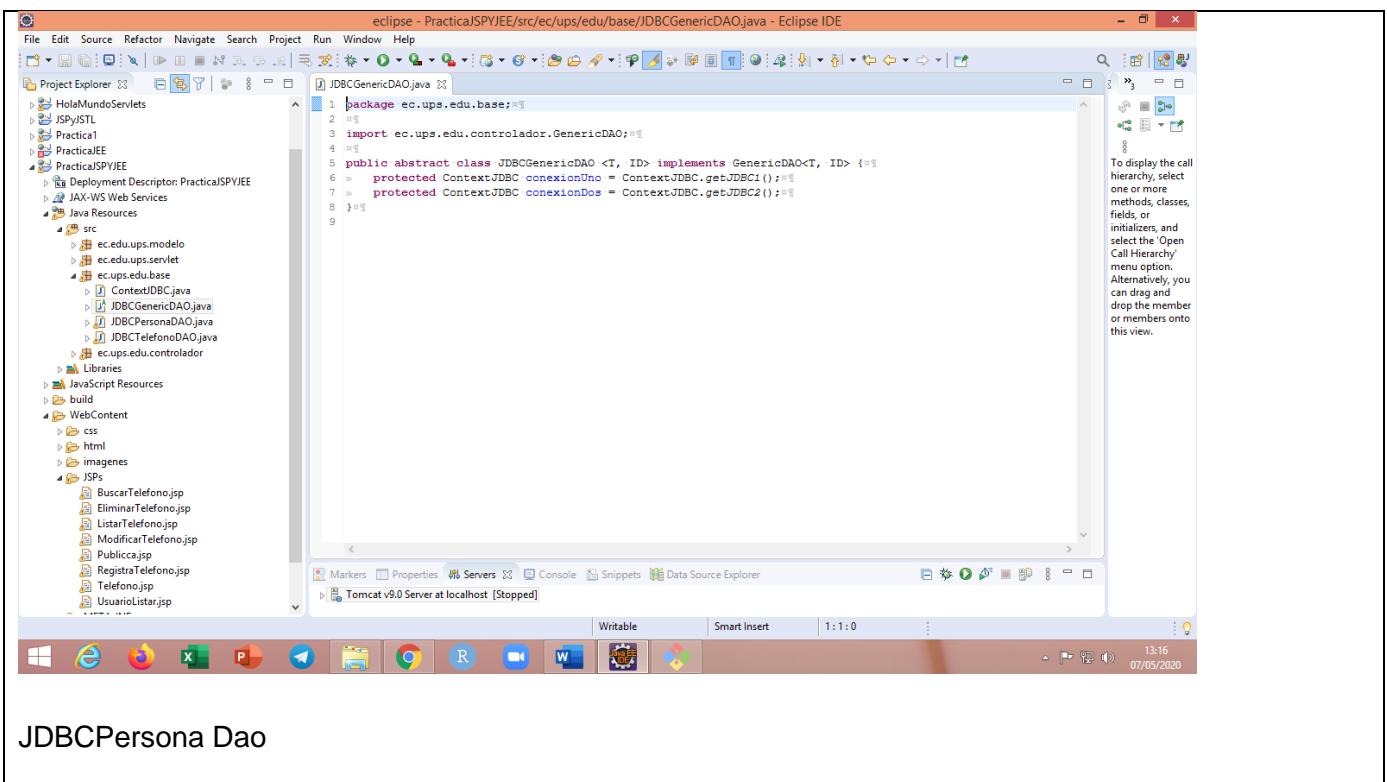
  /**
   * Método getJDBC.
   *
   * Obtiene una conexión activa a la base de datos
   */
  protected static ContextJDBC getJDBC1() {
    // creación de la conexión a la base de datos solo si no ha sido creada patrón
    // de diseño singleton
    if (jdbcTemplate == null) {
      jdbcTemplate = new ContextJDBC();
    }
    return jdbcTemplate;
  }

  /**
   * Método getJDBC.
   */
  protected static ContextJDBC getJDBC2() {
    // creación de la conexión a la base de datos solo si no ha sido creada patrón
    // de diseño singleton
    if (jdbcTemplate2 == null) {
      jdbcTemplate2 = new ContextJDBC();
    }
    return jdbcTemplate2;
  }

```

JDBC Generic Dao

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación



The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure for "PracticaJSPJEE". It includes Java packages like "HolaMundoServlets", "JSPyJSTL", "Practica1", "PracticaJE", and "PracticaJSPJEE". Under "PracticaJSPJEE", there are "Deployment Descriptor", "JAX-WS Web Services", and "Java Resources". The "src" folder contains "ec.edu.ups.modelo", "ec.edu.ups.servlet", "ecups.edu.base", and "ecups.edu.controlador". The "ecups.edu.base" package is expanded, showing classes: ContextDBC.java, JDBCGenericDAO.java, JDBCPersonaDAO.java, and JDBCTelefonoDAO.java.
- Editor View:** Displays the code for `JDBCGenericDAO.java`. The code is as follows:

```
1 package ec.ups.edu.base;
2 ...
3 import ec.ups.edu.controlador.GenericDAO;
4 ...
5 public abstract class JDBCGenericDAO<T, ID> implements GenericDAO<T, ID> {
6     ...
7     protected ContextJDBC conexionUno = ContextJDBC.getJDBC1();
8     ...
9 }
```

- Right-hand Side:** A tooltip provides instructions for displaying the call hierarchy: "To display the call hierarchy, select one or more methods, classes, fields, or initializers, and select the 'Open Call Hierarchy' menu option. Alternatively, you can drag and drop the member or members onto this view."
- Bottom Status Bar:** Shows the date and time: 13:16 07/05/2020.

JDBCPersona Dao

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

```
20>     @Override
21>     public void create(Usuario usuario) {  
22>         // TODO Auto-generated method stub  
23>         conexionUno.update("INSERT Usuario VALUES (" + " " + usuario.getCedula() + " " + usuario.get  
24>         + " " + " " + usuario.getApellido() + " " + " " + usuario.getContraseña() + " ");  
25>  
26>     }  
27>  
28>  
29>     @Override  
30>     public Usuario read(String id) {  
31>         Usuario user = null;  
32>         ResultSet rs = conexionUno.query("SELECT * FROM Usuario");  
33>         try {  
34>             if (rs != null && rs.next()) {  
35>                 user = new Usuario(rs.getString("cedula"), rs.getString("nombre"), rs.getString("apellido"),  
36>                 System.out.println(user.toString()));  
37>             }  
38>         } catch (SQLException e) {  
39>             System.out.println(">>>WARNING (JDBCUserDAO:read): " + e.getMessage());  
40>         }  
41>  
42>         return user;  
43>  
44>  
45>     @Override  
46>     public void update(Usuario usuario) {  
47>         conexionUno.update("UPDATE Usuario SET nombre = '" + usuario.getNombre() + ", apellido = '" + usu  
48>         + " WHERE cedula = " + usuario.getCedula());  
49>  
50>         System.out.println(usuario.toString());  
51>  
52>  
53>  
54>     @Override  
55>     public void delete(Usuario entity) {  
56>         // TODO Auto-generated method stub  
57>  
58>     }  
59>  
60>     @Override  
61>     public List<Usuario> find() {  
62>         // TODO Auto-generated method stub  
63>         List<Usuario> list = new ArrayList<Usuario>();  
64>         ResultSet rs = conexionUno.query("SELECT * FROM usuario");  
65>         try {  
66>             while (rs.next()) {  
67>                 Usuario usuario = new Usuario(rs.getString("cedula"), rs.getString("nombre"),  
68>                 rs.getString("apellido"), rs.getString("correo"), rs.getString("contraseña"));  
69>                 System.out.println(usuario.toString());  
70>                 list.add(usuario);  
71>             }  
72>         } catch (SQLException e) {  
73>             System.out.println("Error: " + e.getMessage());  
74>         }  
75>     }
```

eclipse - PracticaJSPYEE/src/ec/ups/edu/base/JDBCPersonaDAO.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer JDBCGenericDAO.java JDBCPersonaDAO.java
src
  HolaMundoServlets
  JSpyJSTL
  Practica1
  PracticaJE
  PracticaJSPYEE
    Deployment Descriptor: PracticaJSPYEE
    JAX-WS Web Services
    Java Resources
      src
        ec.edu.ups.modelo
        ec.edu.ups.servlet
        ecups.edu.base
          ContextDBC.java
          JDBCGenericDAO.java
          JDBCPersonaDAO.java
          JDBCTelefonoDAO.java
        ecups.edu.controlador
      Libraries
    JavaScript Resources
    build
    WebContent
      css
      html
      imagenes
      JSRs
        BuscarTelefono.jsp
        EliminarTelefono.jsp
        ListarTelefono.jsp
        ModificarTelefono.jsp
        Publicca.jsp
        RegistrarTelefono.jsp
        Telefono.jsp
        UsuarioListar.jsp
  Tomcat v9.0 Server at localhost [Stopped]
  Markers Properties Servers Console Snippets Data Source Explorer
  Writable Smart Insert 1:1:0 ...
  Windows Taskbar: Internet Explorer, Firefox, Chrome, Edge, File Explorer, Powerpoint, Camera, Word, Excel, OneDrive, Google Chrome, Microsoft Edge, Task View, Taskbar icons, System tray: Volume, Battery, Date/Time (13:17, 07/05/2020)

```

Vista

Guia telefonica

localhost:8082/PracticaJSPYEE/JSRs/Publicca.jsp

Bienvenidos a la agenda Telefonica

Iniciar Sesión Registrar Usuario

Numero	Tipo	Operadora	Cedula	Nombre	Apellido	Correo
--------	------	-----------	--------	--------	----------	--------

Cedula Correo Buscar

Más información Nuestra empresa Call EPc
[Buscar Contactos](#)
[Informacion](#)
[Paginas Amarillas](#)
[Contactos](#)

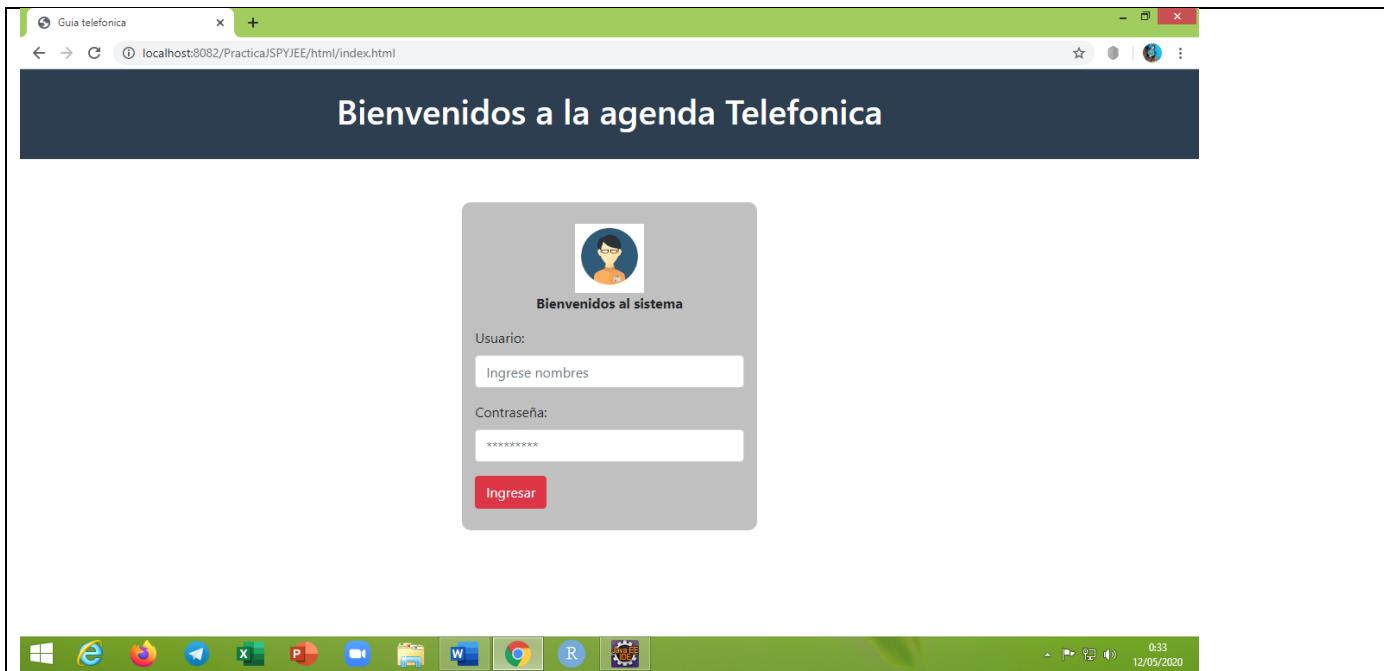
Internet
 Teléfono
 Servicios Corporativos
 Planes que NO se comercializan
[\(593\) Llamar](#)

Los directarios telefónicos eran, originalmente, libros o revistas brindados por las empresas telefónicas, ayuntamientos, etc., en los cuales figuran los números de los abonados en un área geográfica determinada. Disponen a su vez, de teléfonos de interés público, como policía, bomberos, hospitales, protección civil, atención al drogodependiente, etc. Actualmente, se distribuyen también en formato electrónico e Internet.

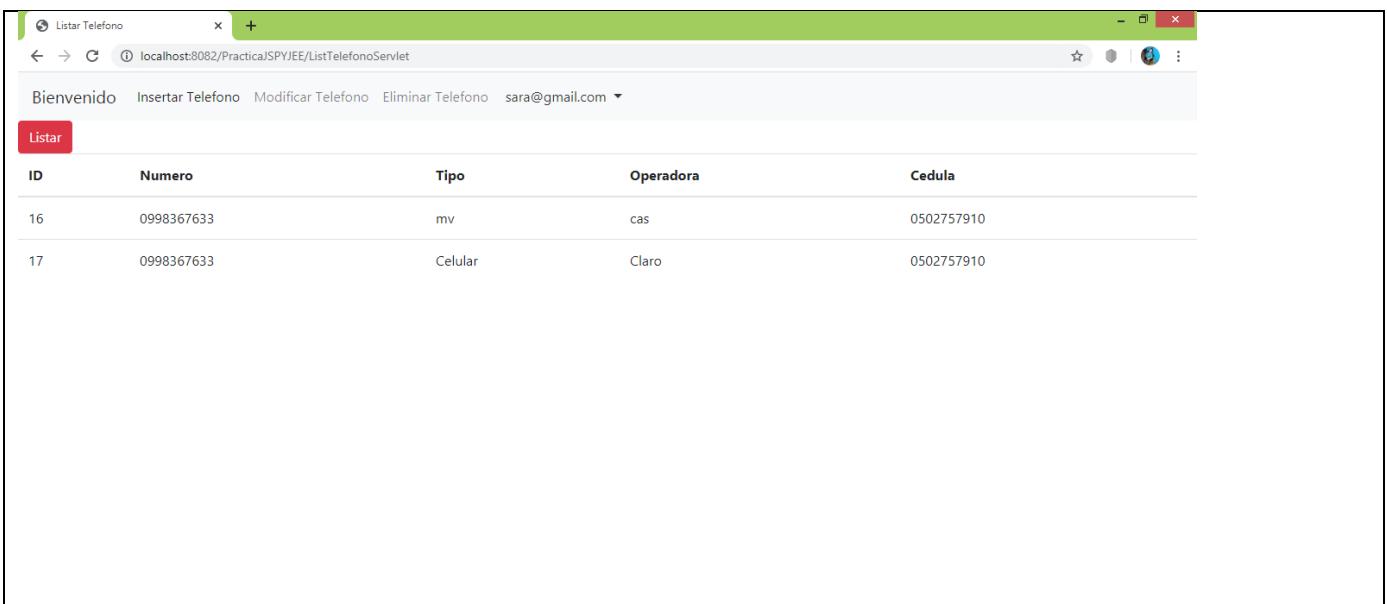
Lo que contiene una agenda telefónica

Nombre y apellidos.
 Teléfono móvil.
 Correo electrónico.
 Cedula.
[Enviar Mensaje](#)

Windows Taskbar: Internet Explorer, Firefox, Chrome, Edge, File Explorer, Powerpoint, Camera, Word, Excel, OneDrive, Google Chrome, Microsoft Edge, Task View, Taskbar icons, System tray: Volume, Battery, Date/Time (0:33, 12/05/2020)



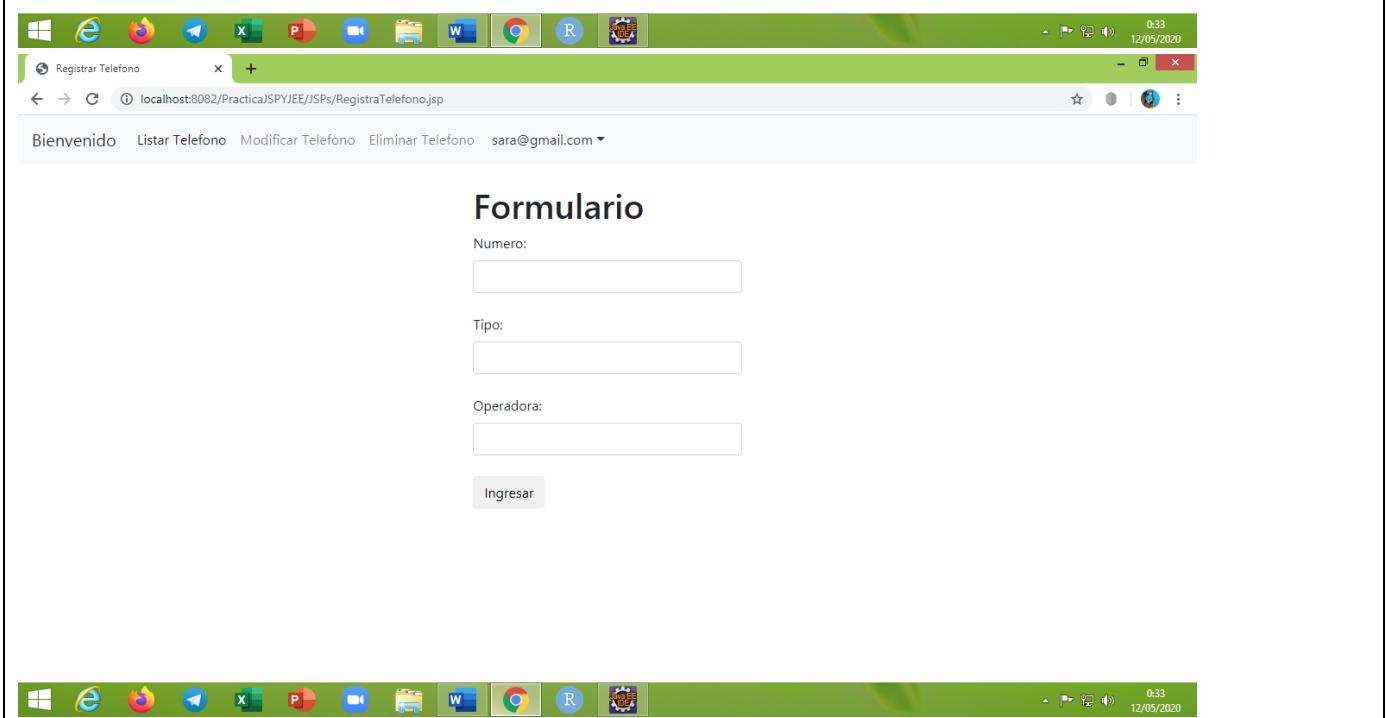
Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación



Bienvenido Insertar Telefono Modificar Telefono Eliminar Telefono sara@gmail.com ▾

Listar

ID	Numero	Tipo	Operadora	Cedula
16	0998367633	mv	cas	0502757910
17	0998367633	Celular	Claro	0502757910



Bienvenido Listar Telefono Modificar Telefono Eliminar Telefono sara@gmail.com ▾

Formulario

Numero:

Tipo:

Operadora:

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

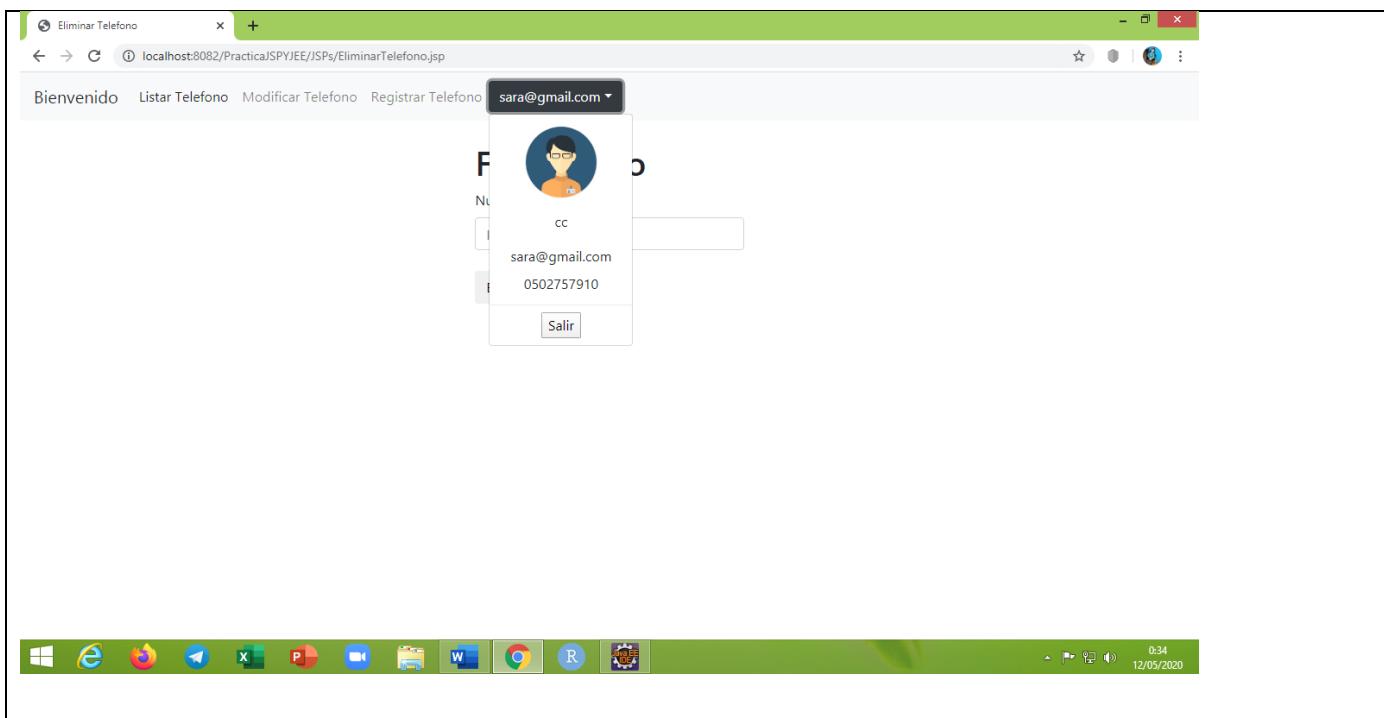
Screenshot of a web browser showing two forms for modifying and deleting phone numbers.

The top window shows a "Modificar Telefono" form with fields for Id, Numero, Tipo, and Operadora, each with an input placeholder "Ingrese el numero telefono ...". A "Modificar" button is at the bottom.

The middle window shows an "Eliminar Telefono" form with a single field for Numero and an "Eliminar" button.

The bottom window shows a taskbar with various application icons and system status indicators.

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RESULTADO(S) OBTENIDO(S):

Maneja diferentes formatos para el intercambio de datos entre aplicaciones

CONCLUSIONES: Poder implementar sistemas JEE basado en Servlets, JSP y JDBC.

RECOMENDACIONES:

Nombre de estudiante: _____ Cinthia Iza_____

Firma de estudiante:

