
	<h1>INGENIERÍA DE SISTEMAS</h1>	
	<h2>TECNOLOGÍAS EMERGENTES II</h2>	
<h3>Segundo Parcial</h3>		
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Base de Datos

Editar.jsp

```
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>JSP Page</title>
```

```
</head>
```

```
<body>
```

```
<h1>
```

```
<c:if test="${aviso.id == 0}">Nuevo</c:if>
```

```
<c:if test="${aviso.id != 0}">Editar</c:if>
```

```
registro
```

```
</h1>
```

```
<form action="Controller" method="post">
```

```
<input type="hidden" name="id" value="${aviso.id}" />
```

```
<label>Titulo:</label>
```

```
<input type="text" name="titulo" value="${aviso.titulo}" />
```

```
<br>
```

```
<label>Exposicion:</label>
```

```
<textarea name="exposicion">${aviso.exposicion}</textarea>
```

```
<br>
```

```
<label>Fecha:</label>
```

```
<input type="text" name="fecha" value="${aviso.fecha}" />
```

```
<br>
```

```
<label>Hora:</label>
```

```
<input type="text" name="hora" value="${aviso.hora}" />
```

```
<br>
```

```
<label>Cupo:</label>
```

```
<input type="number" name="cupo" value="${aviso.cupo}" />
```

```
<br>
```

```
<input type="submit" value="Enviar" />
```

```
</form>
```

```
</body>
```

```
</html>
```

Index.jsp

```
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>Registro de Seminarios</h1>
    <p><a href="Controller?action=add">Nuevo Registro</a></p>
    <table border="1">
      <tr>
        <th>Id</th>
        <th>Titulo</th>
        <th>Exposicion</th>
        <th>Fecha</th>
        <th>Hora</th>
        <th>Cupo</th>
        <th></th>
        <th></th>
      </tr>
      <c:forEach var="item" items="${aviso}">
        <tr>
          <td>${item.id}</td>
          <td>${item.titulo}</td>
          <td>${item.exposicion}</td>
          <td>${item.fecha}</td>
          <td>${item.hora}</td>
          <td>${item.cupo}</td>
          <td><a href="Controller?action=edit&id=${item.id}">Editar</a></td>
          <td><a href="Controller?action=delete&id=${item.id}"
            onclick="return(confirm('Esta seguro de eliminar?'))" >Eliminar</a></td>
        </tr>
      </c:forEach>
    </table>
  </body>
</html>
```

MainController.java

```
package com.emergentes.controlador;
import com.emergentes.dao.AvisoDAO;
import com.emergentes.dao.AvisoDAO1;
import com.emergentes.modelo.Seminario;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet(name = "Controller", urlPatterns = {"/Controller"})
public class MainController extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        try{
            AvisoDAO dao = new AvisoDAO1();

            int id;

            Seminario avi = new Seminario();
            String action = (request.getParameter("action") != null) ? request.getParameter("action"): "view";
            switch (action){
                case "add":

                    request.setAttribute("seminario", avi);
                    request.getRequestDispatcher("editar.jsp").forward(request, response);
                    break;
                case "edit":

                    id = Integer.parseInt(request.getParameter("id"));
                    avi = dao.getByid(id);
                    request.setAttribute("aviso", avi);
                    request.getRequestDispatcher("editar.jsp").forward(request, response);
                    break;
                case "delete":

                    id = Integer.parseInt(request.getParameter("id"));
                    dao.delete(id);

                    response.sendRedirect("Controller");
                    break;
                default:

                    List<Seminario> lista = dao.getAll();
                    request.setAttribute("seminario", lista);
                    request.getRequestDispatcher("index.jsp").forward(request, response);
                    break;
            }

        }catch(Exception e){
            System.out.println("Error " + e.getMessage());
        }
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        AvisoDAO dao = new AvisoDAO1();
        int id = Integer.parseInt(request.getParameter("id"));

```

```

String titulo = request.getParameter("titulo");
String exposicion = request.getParameter("exposicion");
String fecha = request.getParameter("fecha");
String hora = request.getParameter("hora");
int cupo = Integer.parseInt(request.getParameter("cupo"));

Seminario avi = new Seminario();

avi.setId(id);
avi.setTitulo(titulo);
avi.setExpositor(exposicion);
avi.setFecha(fecha);
avi.setHora(hora);
avi.setCupo(cupo);

if(id == 0){
    try{
        dao.insert(avi);
        response.sendRedirect("Controller");
    }catch(Exception e){
        System.out.println("Error " + e.getMessage());
    }
}
else{
    try{
        dao.update(avi);
        response.sendRedirect("Controller");
    }catch (Exception e){
        System.out.println("Error " + e.getMessage());
    }
}
}
}

```

AvisoDAO.java

```

package com.emergentes.dao;
import com.emergentes.modelo.Seminario;
import java.util.List;

public interface AvisoDAO {
    public void insert(Seminario seminario) throws Exception;
    public void update(Seminario seminario) throws Exception;
    public void delete(int id) throws Exception;
    public Seminario getByld(int id) throws Exception;
    public List<Seminario> getAll() throws Exception;
}

AvisoDAO1.java
package com.emergentes.dao;
import com.emergentes.modelo.Seminario;
import com.emergentes.utiles.ConexionDB;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.List;

```

```
public class AvisoDAO1 extends ConexionDB implements AvisoDAO {
```

```
    @Override
```

```
    public void insert(Seminario seminarios) throws Exception {
```

```
        try {
            this.conectar();
            String sql = "INSERT INTO seminario (titulo, expositor, fecha, hora, cupo) VALUES (?, ?, ?, ?, ?)";
            PreparedStatement ps = this.conn.prepareStatement(sql);
            ps.setString(1, seminarios.getTitulo());
            ps.setString(2, seminarios.getExpositor());
            ps.setString(3, seminarios.getFecha());
            ps.setString(4, seminarios.getHora());
            ps.setInt(5, seminarios.getCupo());
            ps.executeUpdate();
        } catch (Exception e) {
            throw e;
        } finally {
            this.desconectar();
        }
    }
}
```

```
    @Override
```

```
    public void update(Seminario seminario) throws Exception {
```

```
        try {
            this.conectar();
            String sql = "UPDATE seminario SET titulo=?, expositor=?, fecha=?, hora=?, cupo=? where id=?";
            PreparedStatement ps = this.conn.prepareStatement(sql);
            ps.setString(1, seminario.getTitulo());
            ps.setString(2, seminario.getExpositor());
            ps.setString(3, seminario.getFecha());
            ps.setString(4, seminario.getHora());
            ps.setInt(5, seminario.getCupo());
            ps.setInt(6, seminario.getId());
            ps.executeUpdate();
        } catch (Exception e) {
            throw e;
        } finally {
            this.desconectar();
        }
    }
}
```

```
    @Override
```

```
    public void delete(int id) throws Exception {
```

```
        try {
            this.conectar();
            PreparedStatement ps = this.conn.prepareStatement("DELETE from seminarios where id = ?");
            ps.setInt(1, id);
            ps.executeUpdate();
        } catch (Exception e) {
            throw e;
        } finally {
            this.desconectar();
        }
    }
}
```

@Override

```
public Seminario getByld(int id) throws Exception {
    Seminario sem = new Seminario();
    try {
        this.conectar();
        PreparedStatement ps = this.conn.prepareStatement("SELECT * FROM seminario where id = ?");
        ps.setInt(1, id);

        ResultSet rs = ps.executeQuery();

        if (rs.next()) {
            sem.setld(rs.getInt("id"));
            sem.setTitulo(rs.getString("titulo"));
            sem.setExpositor(rs.getString("expositor"));
            sem.setFecha(rs.getString("fecha"));
            sem.setHora(rs.getString("hora"));
            sem.setCupo(rs.getInt("cupo"));
        }

    } catch (Exception e) {
        throw e;
    } finally {
        this.desconectar();
    }
    return sem;
}
```

@Override

```
public List<Seminario> getAll() throws Exception {
    List<Seminario> lista = null;
    try {
        this.conectar();
        String sql = "SELECT * FROM seminarios";
        PreparedStatement ps = this.conn.prepareStatement(sql);
        ResultSet rs = ps.executeQuery();
        lista = new ArrayList<Seminario>();

        while (rs.next()) {
            Seminario sem = new Seminario();

            sem.setld(rs.getInt("id"));
            sem.setTitulo(rs.getString("titulo"));
            sem.setExpositor(rs.getString("expositor"));
            sem.setFecha(rs.getString("fecha"));
            sem.setHora(rs.getString("hora"));
            sem.setCupo(rs.getInt("cupo"));

            lista.add(sem);
        }
        rs.close();
        ps.close();
    } catch (Exception e) {
        throw e;
    }
}
```

```
        } finally {  
            this.desconectar();  
        }  
        return lista;  
    }  
}
```

Seminario.java

```
package com.emergentes.modelo;
```

```
public class Seminario {  
    private int id;  
    private String titulo;  
    private String expositor;  
    private String fecha;  
    private String hora;  
    private int cupo;  
  
    public Seminario() {  
    }  
  
    public int getId() {  
        return id;  
    }  
  
    public void setId(int id) {  
        this.id = id;  
    }  
  
    public String getTitulo() {  
        return titulo;  
    }  
  
    public void setTitulo(String titulo) {  
        this.titulo = titulo;  
    }  
  
    public String getExpositor() {  
        return expositor;  
    }  
  
    public void setExpositor(String expositor) {  
        this.expositor = expositor;  
    }  
  
    public String getFecha() {  
        return fecha;  
    }  
  
    public void setFecha(String fecha) {  
        this.fecha = fecha;  
    }  
  
    public String getHora() {
```

```

        return hora;
    }

    public void setHora(String hora) {
        this.hora = hora;
    }

    public int getCupo() {
        return cupo;
    }

    public void setCupo(int cupo) {
        this.cupo = cupo;
    }

    @Override
    public String toString() {
        return "Seminario{" + "id=" + id + ", titulo=" + titulo + ", expositor=" + expositor + ", fecha=" + fecha
+ ", hora=" + hora + ", cupo=" + cupo + '}';
    }
}

```

ConexionDB.java

```

package com.emergentes.utiles;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
public class ConexionDB {
    static String driver = "com.mysql.jdbc.Driver";
    static String url = "jdbc:mysql://localhost:3306/bd_biblio";
    static String usuario = "root";
    static String password = "";

    Connection conn =null;

    public ConexionDB(){
        try{
            Class.forName(driver);
            conn=DriverManager.getConnection(url,usuario,password);
            if(conn != null){
                System.out.println("Conexion OK: " + conn);
            }
        }catch(SQLException ex){
            System.out.println("Error de SQL "+ ex.getMessage());
        }catch(ClassNotFoundException ex){
            Logger.getLogger(ConexionDB.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    public Connection conectar(){
        return conn;
    }

    public void desconectar(){
        try{

```



```

        conn.close();
    }catch(SQLException ex){
        Logger.getLogger(ConexionDB.class.getName()).log(Level.SEVERE, null, ex);
    }
}
}

```

Test.java

```

package com.emergentes.utiles;
import java.sql.SQLException;
public class Test {
    public static void main(String [] args) throws SQLException
    {
        ConexionDB con = new ConexionDB();

        con.conectar();
    }
}

```

web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd">
    <session-config>
        <session-timeout>
            30
        </session-timeout>
    </session-config>
    <welcome-file-list>
        <welcome-file>MainController</welcome-file>
    </welcome-file-list>
</web-app>

```