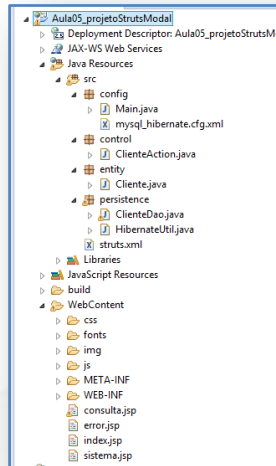


Estrutura do Projeto...



LIBS:

antlr-2.7.6.jar
asm-attrs.jar
asm.jar
c3p0-0.9.0.jar
cglib-2.1.3.jar
commons-beanutils-1.7.0.jar
commons-codec-1.3.jar
commons-collections-3.1.jar
commons-digester-1.6.jar
commons-el-1.0.jar
commons-fileupload-1.0.jar
commons-lang-2.1.jar
commons-logging-1.0.4.jar
dom4j-1.6.1.jar
ejb3-persistence.jar
freemarker-2.3.8.jar
hibernate-annotations.jar
hibernate-commons-annotations.jar
hibernate3.jar
hsqldb.jar
jstl-1.1.0.jar
jta.jar
log4j-1.2.15.jar
mysql-connector-java-5.1.23-bin.jar
ognl-2.6.11.jar

```
oro-2.0.8.jar  
servlet3-api.jar  
standard.jar  
struts2-core-2.0.11.jar  
xwork-2.0.4.jar
```

```
package entity;
```

```
import javax.persistence.Column;  
import javax.persistence.Entity;  
import javax.persistence.GeneratedValue;  
import javax.persistence.GenerationType;  
import javax.persistence.Id;
```

```
@Entity
```

```
public class Cliente {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.AUTO)
```

```
    private Integer idCliente;
```

```
    @Column(length = 35)
```

```
    private String nome;
```

```
    @Column(length = 1, columnDefinition = "enum('m','f')")
```

```
    private String sexo;
```

```
    public Cliente() {
```

```
    }
```

```
    public Cliente(Integer idCliente, String nome, String sexo)
```

```
    {
```

```
        this.idCliente = idCliente;
```

```
        this.nome = nome;
```

```
        this.sexo = sexo;
```

```
    }
```

```
    public Integer getIdCliente() {
```

```
        return idCliente;
```

```
    }
```

```
public void setIdCliente(Integer idCliente) {
    this.idCliente = idCliente;
}
public String getNome() {
    return nome;
}
public void setNome(String nome) {
    this.nome = nome;
}
public String getSexo() {
    return sexo;
}
public void setSexo(String sexo) {
    this.sexo = sexo;
}
}
```

mysql_hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate
Configuration DTD 3.0//EN"
"http://hibernate.sourceforge.net/hibernate-configuration-
3.0.dtd">
<hibernate-configuration>

    <session-factory>
        <property
name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</pro
perty>
        <property
name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</
property>
        <property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/stru
ts2?createDatabaseIfNotExist=true</property>
        <property
name="hibernate.connection.username">root</property>
        <property
name="hibernate.connection.password">1234</property>

        <property name="hibernate.show_sql">>true</property>
```

```
<property name="hibernate.format_sql">true</property>  
<property name="hibernate.hbm2ddl.auto">true</property>
```

```
<mapping class="entity.Cliente"/>
```

```
</session-factory>  
</hibernate-configuration>
```

```
package config;
```

```
import org.hibernate.cfg.AnnotationConfiguration;  
import org.hibernate.cfg.Configuration;  
import org.hibernate.tool.hbm2ddl.SchemaExport;
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        Configuration cfg = new  
AnnotationConfiguration().configure("config/mysql_hibernate.cfg.  
xml");  
        new SchemaExport(cfg).create(true, true);  
        System.out.println("Tabela Cliente gerada");  
    }  
}
```

```
No console...
```

```
log4j:WARN No appenders could be found for logger  
(org.hibernate.cfg.annotations.Version).  
log4j:WARN Please initialize the log4j system properly.
```

```
drop table if exists Cliente
```

```
create table Cliente (  
    idCliente integer not null auto_increment,  
    nome varchar(35),  
    sexo enum('m','f'),  
    primary key (idCliente)  
)
```

```
Tabela Cliente gerada
```

```

MySQL 5.5 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 239
Server version: 5.5.17 MySQL Community Server (GPL)
Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use struts2;
Database changed
mysql> show tables;
+-----+
| Tables_in_struts2 |
+-----+
| cliente           |
+-----+
1 row in set (0.00 sec)

mysql> desc cliente;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| idCliente  | int(11)       | NO   | PRI | NULL    | auto_increment |
| nome       | varchar(35)   | YES  |     | NULL    |                |
| sexo       | enum('m','f') | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.03 sec)

mysql>

```

package persistence;

import org.hibernate.cfg.AnnotationConfiguration;
import org.hibernate.SessionFactory;

public class HibernateUtil {

private static final SessionFactory *sessionFactory*;

static {
 try {

sessionFactory = new
AnnotationConfiguration().configure("config/mysql_hibernate.cfg.
xml").buildSessionFactory();

 } **catch** (Throwable ex) {
 System.*err*.println("Initial SessionFactory creation
failed." + ex);

throw new ExceptionInInitializerError(ex);
 }
 }

```
public static SessionFactory getSessionFactory() {  
    return sessionFactory;  
}  
}
```

```
package persistence;
```

```
import java.util.List;
```

```
import org.hibernate.Criteria;
```

```
import org.hibernate.Query;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.Transaction;
```

```
import entity.Cliente;
```

```
public class ClienteDao {
```

```
    Session session;
```

```
    Transaction transaction;
```

```
    Criteria criteria;
```

```
    Query query;
```

```
public void create(Cliente c) throws Exception {  
    session = HibernateUtil.getSessionFactory().openSession();  
        transaction = session.beginTransaction();  
            session.save(c);  
            transaction.commit();  
        session.close();  
}
```

```
public void update(Cliente c) throws Exception {  
    session = HibernateUtil.getSessionFactory().openSession();  
        transaction = session.beginTransaction();  
            session.update(c);  
            transaction.commit();  
        session.close();  
}
```

```
public void delete(Cliente c) throws Exception {  
    session = HibernateUtil.getSessionFactory().openSession();  
        transaction = session.beginTransaction();  
            session.delete(c);  
}
```

```
        transaction.commit();
        session.close();
    }

    public Cliente findById(Integer code) throws Exception{
        session = HibernateUtil.getSessionFactory().openSession();
        Cliente resp = (Cliente)session.get(Cliente.class, code);
        session.close();
        return resp;
    }

    public List<Cliente> findAll() {
        session = HibernateUtil.getSessionFactory().openSession();
        criteria = session.createCriteria(Cliente.class);
        List<Cliente> lista = criteria.list();
        session.close();
        return lista;
    }
}
```

```
package control;

import java.util.ArrayList;
import java.util.List;
import javax.servlet.http.HttpServletRequest;
import org.apache.struts2.ServletActionContext;
import persistence.ClienteDao;
import com.opensymphony.xwork2.ActionContext;
import com.opensymphony.xwork2.ActionSupport;

import entity.Cliente;
```

```
public class ClienteAction extends
ActionSupport {
```

```
    private static final long serialVersionUID = 1L;

    private Cliente cliente;
    private String id;
    private List<Cliente> clientes;

    public ClienteAction() {
        cliente = new Cliente();
    }
}
```

```
        clientes = new ArrayList<Cliente>();
    }
    public Cliente getCliente() {
        return cliente;
    }
    public void setCliente(Cliente cliente) {
        this.cliente = cliente;
    }
    public List<Cliente> getClientes() {
        try {
            clientes = new ClienteDao().findAll();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return clientes;
    }
    public void setClientes(List<Cliente> clientes) {
        this.clientes = clientes;
    }
    public String getId() {
        return id;
    }
    public void setId(String id) {
        this.id = id;
    }
    public static long getSerialVersionUID() {
        return serialVersionUID;
    }

    public String cadastrarCliente() {
        HttpServletRequest request = (HttpServletRequest)
        ActionContext.getContext().get(ServletActionContext.HTTP_REQUEST
        );
        try {
            new ClienteDao().create(cliente);
            request.setAttribute("msg", "Dados Gravados com Sucesso!");
        } catch (Exception e) {
            request.setAttribute("msg", "Error: " + e.getMessage());
            e.printStackTrace();
            return ERROR;
        }
        return SUCCESS;
    }
}
```



```
public String deletarCliente() {
    HttpServletRequest request = (HttpServletRequest)
    ActionContext.getContext().get(ServletActionContext.HTTP_REQUEST
    );
    try {
        Integer idCliente = new Integer(id);
        cliente = new ClienteDao().findByIde(idCliente);
        new ClienteDao().delete(cliente);
        request.setAttribute("msg", "Cliente Deletado com Sucesso!");
    } catch (Exception e) {
        request.setAttribute("msg", "Error: " + e.getMessage());
        return ERROR;
    }
    return SUCCESS;
}

public String listarClientes() {
    return SUCCESS;
}
}
```

struts.xml

```
<!DOCTYPE struts PUBLIC
"-//Apache Software Foundation//DTD Struts Configuration
2.0//EN"
"http://struts.apache.org/dtds/struts-2.0.dtd">

<struts>
    <package name="clienteaction" extends="struts-default">

        <action name="cliente.cadastrar"
class="control.ClienteAction" method="cadastrarCliente">
            <result name="success">/sistema.jsp</result>
            <result name="error">/error.jsp</result>
        </action>

        <action name="cliente.deletar"
class="control.ClienteAction" method="deletarCliente">
            <result name="success">/consulta.jsp</result>
            <result name="error">/error.jsp</result>
        </action>
    </package>
</struts>
```

```
<action name="cliente.listar"  
class="control.ClienteAction" method="listarClientes">  
    <result name="success">/consulta.jsp</result>  
</action>  
</package>  
</struts>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://java.sun.com/xml/ns/javaee"  
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee  
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"  
version="2.5">  
  
    <filter>  
        <filter-name>struts2</filter-name>  
        <filter-  
class>org.apache.struts2.dispatcher.FilterDispatcher</filter-  
class>  
    </filter>  
  
    <filter-mapping>  
        <filter-name>struts2</filter-name>  
        <url-pattern>/*</url-pattern>  
    </filter-mapping>  
  
    <session-config>  
        <session-timeout>30</session-timeout>  
    </session-config>  
  
    <welcome-file-list>  
        <welcome-file>index.jsp</welcome-file>  
    </welcome-file-list>  
  
</web-app>
```

index.jsp

```

<!DOCTYPE html>
<html lang = "pt-BR">
  <head>
    <meta charset="utf-8">
    <title>Struts2</title>

    <link rel="stylesheet" type="text/css"
href="css/bootstrap.css"/>
    <script type="text/javascript"
src="js/bootstrap.js"></script>

  </head>
  <body>
    <h2 class="jumbotron">Projeto STRUTS 2.0</h2>
    <div class="container">
      <a href="sistema.jsp" class="btn btn-success">
        <span class="glyphicon glyphicon-floppy-disk"></span>
        Cadastrar </a>

      <a href="cliente.listar.action" class="btn btn-warning">
        <span class="glyphicon glyphicon-search"></span> Consultar
        </a>

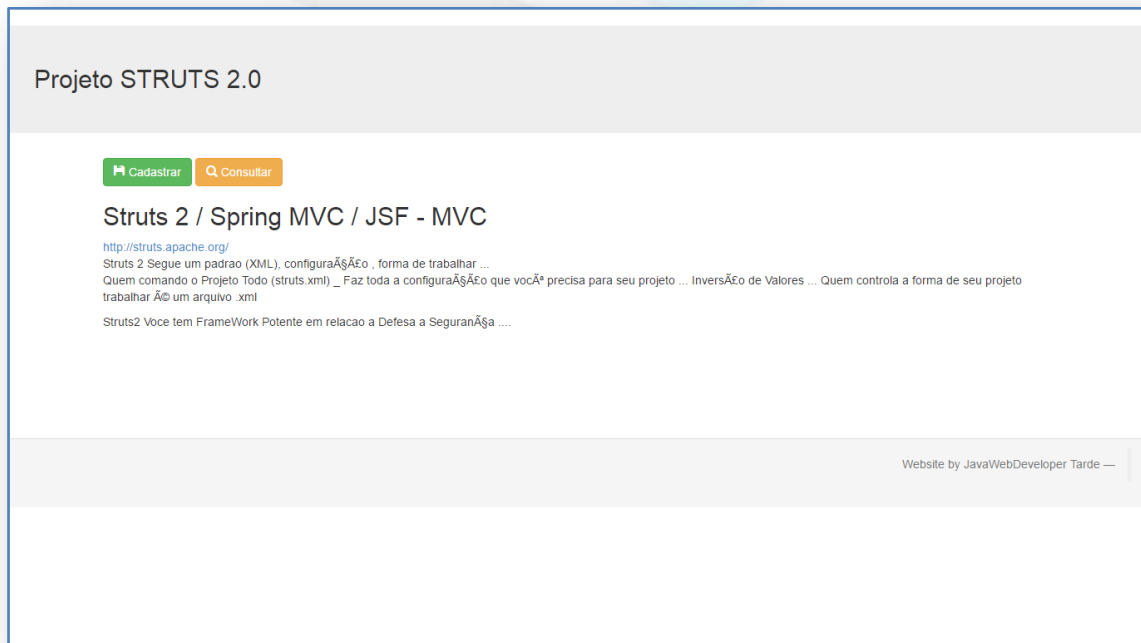
      <div class="conteudo">

        <h2>Struts 2 / Spring MVC / JSF - MVC</h2>
        <p>
          <a href="http://struts.apache.org/">http://struts.apache.org/</a>
          <br/>
          Struts 2 Segue um padrao (XML), configuraÃ§Ã£o ,
          forma de trabalhar ...<br/>
          Quem comanda o Projeto Todo (struts.xml) _ Faz toda a
          configuraÃ§Ã£o que vocÃª
          precisa para seu projeto ... InversÃ£o de Valores ...
          Quem controla a forma
          de seu projeto trabalhar Ã© um arquivo .xml</p>

        <p>
          Struts2 Voce tem Framework Potente em relacao a
          Defesa a SeguranÃ§a ....
        </p>

```

```
</div><!-- FECHA CONTEUDO -->
</div><!-- FECHA CONTAINER -->
<br/><br/>
<br/><br/>
<br/><br/>
<div class="panel panel-footer" >
  <blockquote class="blockquote-reverse">
    <footer>Website by JavaWebDeveloper Tarde</footer>
  </blockquote>
</div><!-- FECHA PANEL-FOOTER-->
</body>
</html>
```



systema.jsp

```
<%@taglib prefix="s" uri="/struts-tags"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Cadastro</title>
```

```
<link rel="stylesheet" type="text/css" href="css/bootstrap.css"
/>
<script type="text/javascript" src="js/jquery-
2.1.4.min.js"></script>
<script type="text/javascript" src="js/bootstrap.js"></script>

</head>
<body>
  <h2 class="jumbotron">Projeto STRUTS 2.0</h2>
  <div class="container">
    <a href="index.jsp" class="btn btn-primary"> <span
      class="glyphicon glyphicon-home"></span> Home
    </a>&nbsp;
    <button class="btn btn-success" data-
toggle="modal" data-target="#janela"> Cadastrar Cliente <span
class="glyphicon glyphicon-user"></span>
    </button>
    <a href="cliente.listar.action" class="btn btn-
warning">
<span
class="glyphicon glyphicon-search"></span> Consultar
    </a><br /> <br />

    <!-- janela modal -->
    <div class="modal fade" id="janela">
      <div class="modal-dialog">
        <div class="modal-content">

          <div class="modal-header">
            <h3>Cadastro de Usuário</h3>
          </div>

          <div class="modal-body">

            <s:form action="cliente.cadastrar" method="post">
              <div class="form-group">
                <label>Nome:</label>
              <input type="text" class="form-control" name="cliente.nome">
              </div><!-- FECHA FORM-GROUP -->

              <div class="form-group">
                <label>Sexo:</label>
              <input type="radio" name="cliente.sexo" value="m"

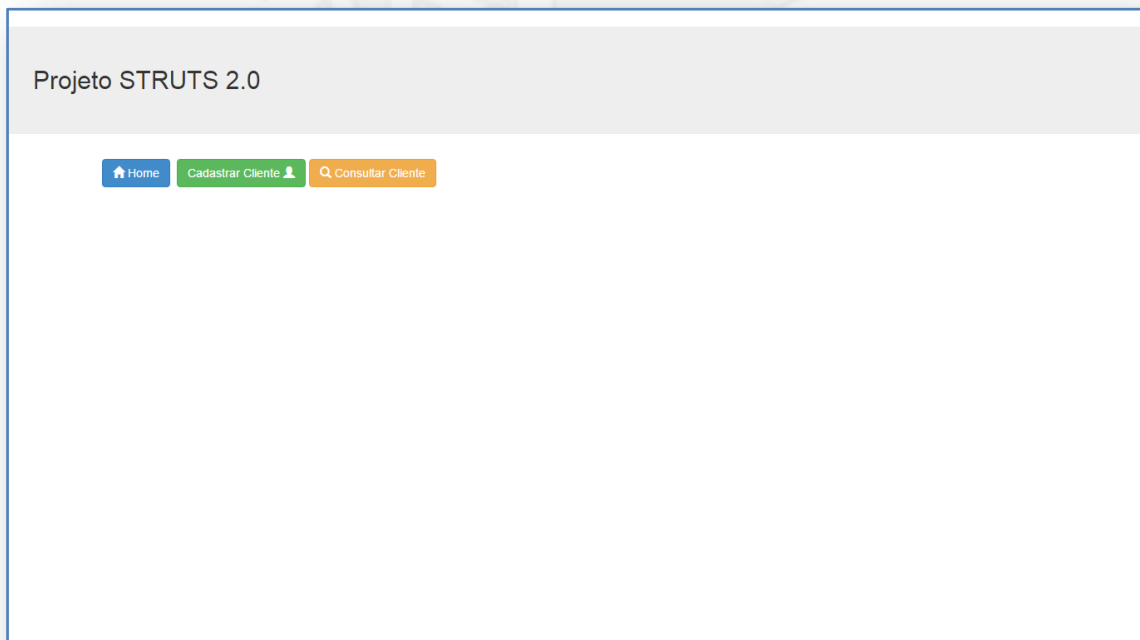
```

```
checked="checked" >Masculino
<input type="radio" name="cliente.sexo" value="f">Feminino
    </div><!-- FECHA FORM-GROUP -->

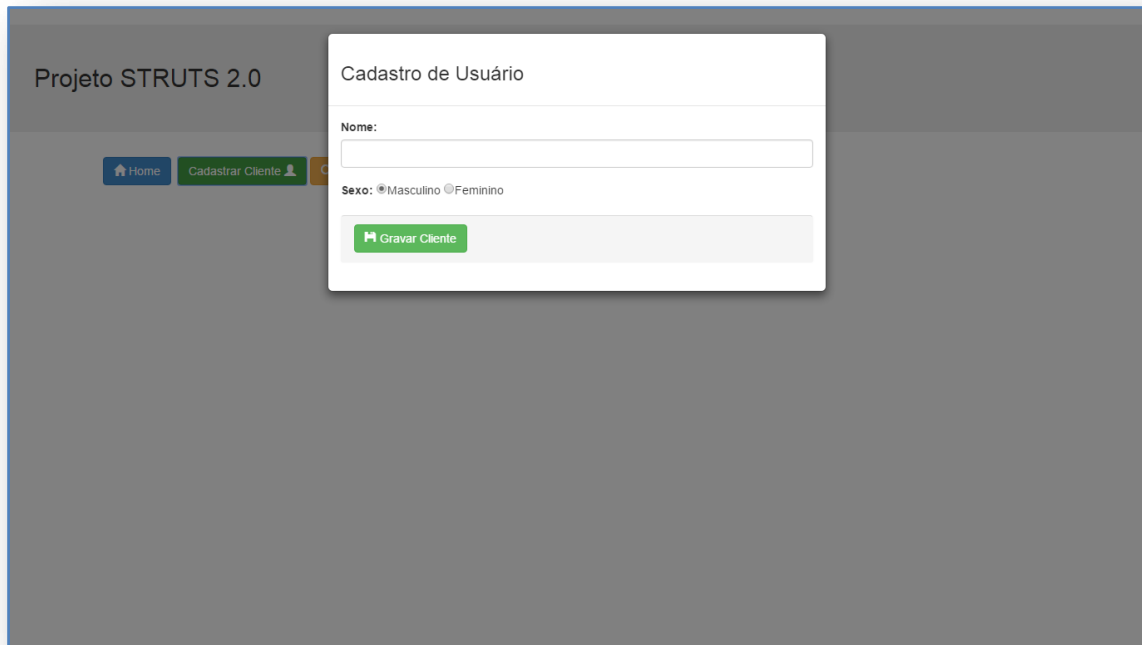
    <div class="panel panel-footer">
        <button type="submit" class="btn btn-success">
            <span class="glyphicon glyphicon-floppy-disk"></span>
Gravar Cliente
        </button>
        <span>&nbsp; ${msg}</span>
    </div><!-- FECHA PANEL-FOOTER -->

</s:form>
    </div><!-- FECHA DIV MODAL-BODY -->
</div><!-- FECHA MDOAL CONTENT -->
</div><!-- FECHA MODAL-DIALOG -->
</div><!-- FECHA MODAL FADE -->
</div><!-- FECHA CONTAINER -->

</body>
</html>
```



Clicando em cadastrar...



Projeto STRUTS 2.0

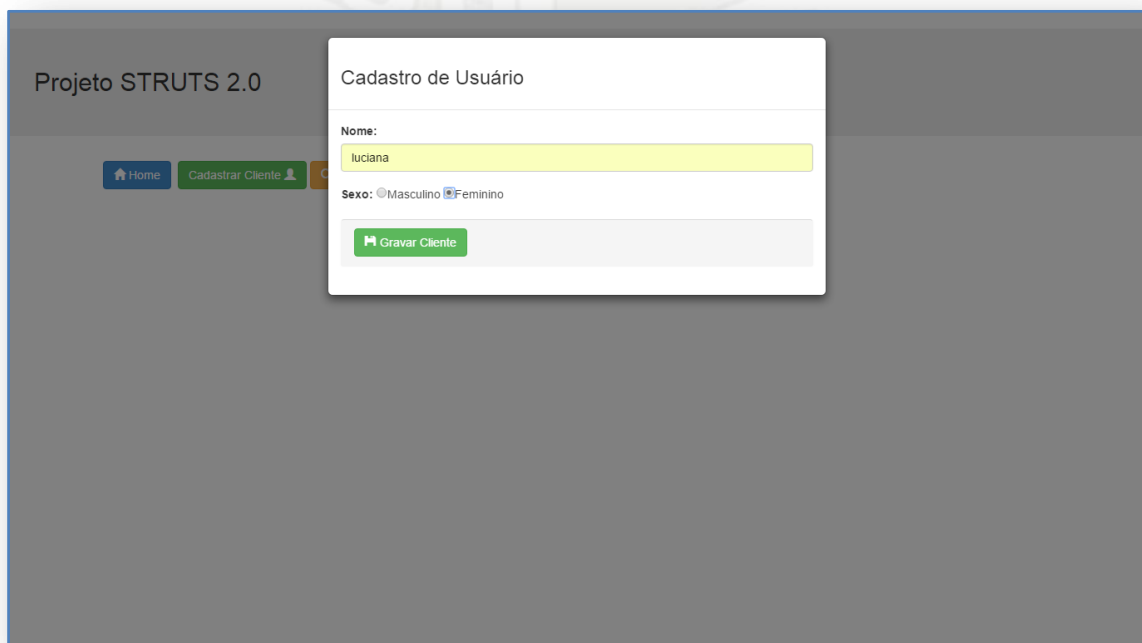
Cadastro de Usuário

Nome:

Sexo: Masculino Feminino

Gravar Cliente

Cadastrando...



Projeto STRUTS 2.0

Cadastro de Usuário

Nome:
luciana

Sexo: Masculino Feminino

Gravar Cliente

consulta.jsp

```
<%@taglib prefix="s" uri="/struts-tags" %>
<!DOCTYPE html >
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">
    <title>Consulta</title>

    <link rel="stylesheet" type="text/css"
href="css/bootstrap.css"/>
    <script type="text/javascript"
src="js/bootstrap.js"></script>

  <s:head/></head>

  <h2 class="jumbotron">Projeto STRUTS 2.0</h2>

  <div class="container">

    <a href="index.jsp" class="btn btn-primary">
<span class="glyphicon glyphicon-home"></span> Home
</a>&nbsp;
    <a href="sistema.jsp" class="btn btn-success">
<span class="glyphicon glyphicon-floppy-disk"></span>
Cadastrar Cliente
    </a>&nbsp;
    <a href="cliente.listar.action" class="btn btn-warning">
<span class="glyphicon glyphicon-search"></span>
Consultar Cliente
    </a><br/><br/>

    <h4>${msg}</h4>

    <div class="col-sm-8 col-sm-offset-2">
    <div class="panel panel-primary">
      <div class="panel-heading">Consulta de Clientes
      </div><!-- FECHA PANEL-HEADING -->
      <table class="table table-hover">
        <tr>
          <td><b>idCliente</b></td>
          <td><b>Nome</b></td>
          <td><b>Sexo</b></td>
```





```
        <td><b>Excluir</b></td>
    </tr>

    <s:iterator value="clientes" id="linha">
        <tr>
            <td> <s:property value="idCliente"/> </td>
            <td> <s:property value="nome"/> </td>
            <td> <s:property value="sexo"/> </td>
            <td>
                <s:form action="cliente.deletar.action">
                    <s:hidden name="id" value="{idCliente}"></s:hidden>
                    <button type="submit" class="btn btn-danger">
                        <span class="glyphicon glyphicon-trash"></span>
                    </button>
                </s:form>
            </td>
        </tr>
    </s:iterator>
</table>
</div><!-- FECHA PANEL-PRIMARY -->
</div><!-- FECHA DIV COL-SM -->
</div><!-- FECHA CONTAINER -->
<div class="panel panel-footer" >
    <blockquote class="blockquote-reverse">
        <footer>Website by JavaWebDeveloper Tarde</footer>
    </blockquote>
</div><!-- FECHA PANEL-FOOTER-->

</body>
</html>
```

Projeto STRUTS 2.0

[Home](#) [Cadastrar Cliente](#) [Consultar Cliente](#)

Consulta de Clientes			
idCliente	Nome	Sexo	Excluir
1	luciana	f	
2	carolina	f	


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Apagando carol...

Projeto STRUTS 2.0

[Home](#) [Cadastrar Cliente](#) [Consultar Cliente](#)

Cliente Deletado com Sucesso!

Consulta de Clientes			
idCliente	Nome	Sexo	Excluir
1	luciana	f	

Website by JavaWebDeveloper Tarde —

error.jsp

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">
    <title>Erro</title>

    <link rel="stylesheet" type="text/css"
href="css/bootstrap.css"/>
    <script type="text/javascript"
src="js/bootstrap.js"></script>

    <style type="text/css">
      body {
        background-image: url("img/404-10.jpg");
        background-repeat: no-repeat;
        background-attachment: fixed;
        background-size: cover;
      }
    </style>
  </head>

  <body>
    <div class="container">
      <br/>
      <a href="index.jsp" class="btn btn-primary">
        <span class="glyphicon glyphicon-home"></span> Home
      </a>
      <h4>${msg}</h4>
    </div><!-- FECHA CONTAINER -->
  </body>
</html>
```



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