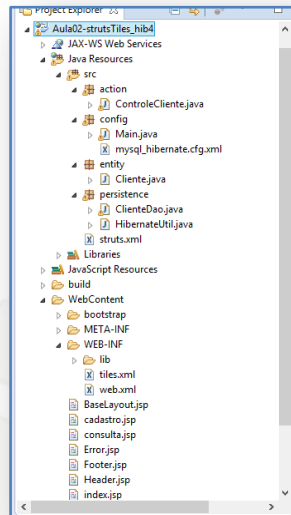


Projeto Tiles

Estrutura do projeto...



LIBS:

```
antlr-2.7.7.jar
c3p0-0.9.2.1.jar
commons-beanutils-1.7.0.jar
commons-collections-2.1.jar
commons-collections-3.2.1-1.0.0.jar
commons-digester-1.8.jar
commons-logging-1.0.4.jar
dom4j-1.6.1.jar
ehcache-core-2.4.3.jar
freemarker-2.3.8.jar
hibernate-c3p0-4.3.1.Final.jar
hibernate-commons-annotations-4.0.4.Final.jar
hibernate-core-4.3.1.Final.jar
hibernate-ehcache-4.3.1.Final.jar
hibernate-entitymanager-4.3.1.Final.jar
hibernate-jpa-2.1-api-1.0.0.Final.jar
hibernate-validator-4.3.0.Final.jar
hibernate-validator-annotation-processor-4.3.0.Final.jar
jandex-1.1.0.Final.jar
javassist-3.18.1-GA.jar
jboss-logging-3.1.3.GA.jar
jboss-logging-annotations-1.2.0.Beta1.jar
```

```
jboss-transaction-api_1.2_spec-1.0.0.Final.jar  
log4j-1.2.15.jar  
mysql-connector-java-5.1.23-bin.jar  
ognl-2.6.11.jar  
ojdbc14-10.2.0.3.jar  
servlet3-api.jar  
slf4j-api-1.6.1.jar  
slf4j-log4j12-1.6.0-rc0.jar  
struts2-core-2.0.14.jar  
struts2-tiles-plugin-2.0.14.jar  
tiles-api-2.0.4.jar  
tiles-core-2.0.4.jar  
tiles-jsp-2.0.4.jar  
validation-api-1.0.0.GA.jar  
xwork-2.0.7.jar
```

```
package entity;
```

```
import java.io.Serializable;
```

```
import javax.persistence.Column;  
import javax.persistence.Entity;  
import javax.persistence.GeneratedValue;  
import javax.persistence.GenerationType;  
import javax.persistence.Id;  
import javax.persistence.NamedQueries;  
import javax.persistence.NamedQuery;  
import javax.persistence.Table;
```

```
@Entity  
@Table  
@NamedQueries(  
    {@NamedQuery(name="Cliente.findAll", query="from Cliente"),  
     @NamedQuery(name="Cliente.findByEmail",  
                 query="from Cliente c where c.email= :param1")  
    })
```

```
public class Cliente implements  
Serializable{
```

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

```
@Id
@GeneratedValue(strategy=GenerationType.AUTO)
@Column
private Integer idCliente;

@Column(length=50)
private String nome;

@Column(length=50,unique=true)
private String email;

public Cliente() {
}

public Cliente(Integer idCliente, String nome, String
email) {
    this.idCliente = idCliente;
    this.nome = nome;
    this.email = email;
}

@Override
public String toString() {
    return "Cliente [idCliente=" + idCliente + ", nome="
+ nome + ", email=" + email + "];"
}

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 getEmail() {
    return email;
}

public void setEmail(String email) {
    this.email = email;
}
}
```

```
    public static long getSerialVersionUID() {  
        return serialVersionUID;  
    }  
}
```

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  
property>  
        <property  
            name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</  
property>  
        <property  
            name="hibernate.connection.url">jdbc:mysql://localhost:3306/bd_t  
iles?createDatabaseIfNotExist=true</property>  
        <property  
            name="hibernate.connection.username">root</property>  
        <property  
            name="hibernate.connection.password">coti</property>  
  
        <property name="hibernate.format_sql">>true</property>  
        <property name="hibernate.hbm2ddl.auto">update</property>  
  
        <mapping class="entity.Cliente"/>  
  
    </session-factory>  
</hibernate-configuration>
```

```
package config;
```

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

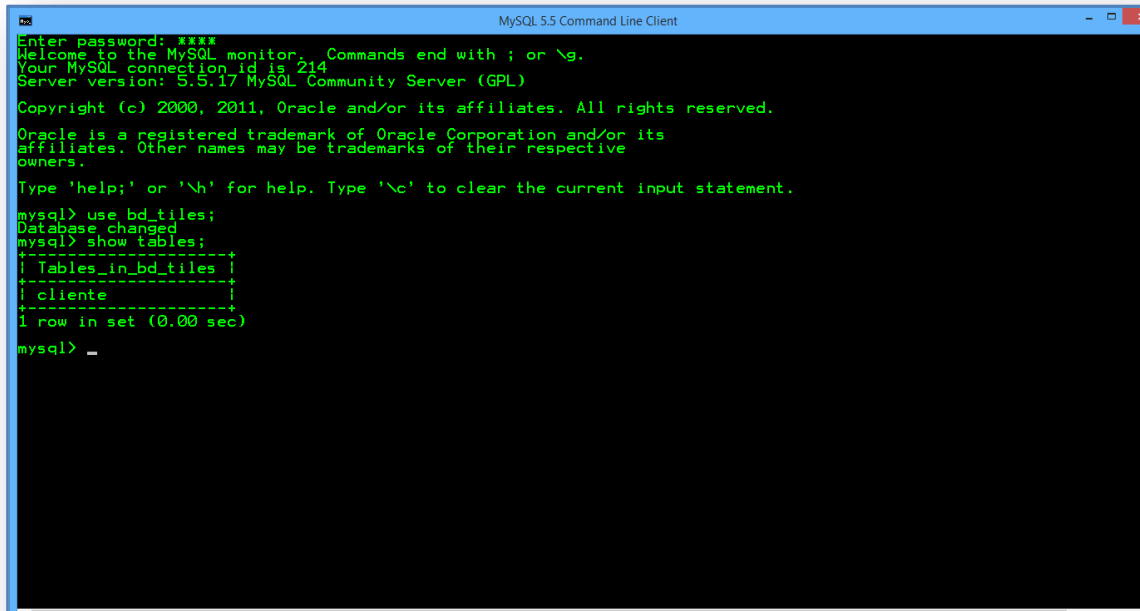
```
public class Main {
```

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

No console...

```
log4j:WARN No appenders could be found for logger  
(org.jboss.logging).  
log4j:WARN Please initialize the log4j system properly.
```

```
drop table if exists Cliente  
  
create table Cliente (  
    idCliente integer not null auto_increment,  
    email varchar(50),  
    nome varchar(50),  
    primary key (idCliente)  
)  
  
alter table Cliente  
    add constraint UK_tfai0ea59ylhrubk6at672968 unique  
(email)  
Tableas geradas
```



```
MySQL 5.5 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 214
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 bd_tiles;
Database changed
mysql> show tables;
+-----+
| Tables_in_bd_tiles |
+-----+
| cliente             |
+-----+
1 row in set (0.00 sec)

mysql> _
```

package persistence;

```
import org.hibernate.HibernateException;
import org.hibernate.SessionFactory;
import
org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
```

```
public class HibernateUtil {
```

```
    private static final SessionFactory sessionFactory;

    static {
        try {
            Configuration configuration = new
Configuration().configure("config/mysql_hibernate.cfg.xml");
            StandardServiceRegistryBuilder builder = new
StandardServiceRegistryBuilder().applySettings(configuration.get
Properties());
```

```
        sessionFactory =  
configuration.buildSessionFactory(builder.build());  
    } catch (HibernateException ex) {  
        System.err.println("Initial SessionFactory creation  
failed." + ex);  
        throw new ExceptionInInitializerError(ex);  
    }  
}  
  
public static SessionFactory getSessionFactory() {  
    return sessionFactory;  
}  
  
public static void closeSessionFactory() {  
    sessionFactory.close();  
}  
}
```

```
package persistence;
```

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

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

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

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

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

```
import org.hibernate.cfg.AnnotationConfiguration;
```

```
import org.hibernate.tool.hbm2ddl.SchemaExport;
```

```
import entity.Cliente;
```

```
public class ClienteDao {
```

```
    Session session;
```

```
    Transaction transaction;
```

```
    Query query;
```

```
    Criteria criteria;
```

```
public void create(Cliente c) throws Exception{
```

```
    session = HibernateUtil.getSessionFactory().openSession();
```

```
        transaction = session.beginTransaction();
```

```
        session.save(c);
```

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

    public List<Cliente> findAll(){
        session = HibernateUtil.getSessionFactory().openSession();
        List<Cliente> resp =
        session.getNamedQuery("Cliente.findAll").list();
        session.close();
        return resp;
    }

    public Cliente findByCode(Integer cod) throws Exception{
        session = HibernateUtil.getSessionFactory().openSession();
        Cliente cliente= (Cliente) session.get(Cliente.class, cod);
        session.close();
        return cliente;
    }
}
```

```
package action;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.apache.struts2.ServletActionContext;

import com.opensymphony.xwork2.ActionContext;
import com.opensymphony.xwork2.ActionSupport;

import entity.Cliente;
import persistence.ClienteDao;
```

```
public class ControleCliente extends  
ActionSupport{
```

```
    private Cliente cliente;
    HttpServletRequest request;
    private List<Cliente> lista;

    private void init(){
        request = (HttpServletRequest)
```



```
    ActionContext.getContext().get(ServletActionContext.HTTP_REQUEST);
}
```

```
public List<Cliente> getLista() {
    lista = new ClienteDao().findAll();
    return lista;
}
public void setLista(List<Cliente> lista) {
    this.lista = lista;
}
public Cliente getCliente() {
    return cliente;
}
public void setCliente(Cliente cliente) {
    this.cliente = cliente;
}
public String home() {
    return SUCCESS;
}
public String cadastro() {
    return "cadastro";
}
public String consulta() {
    getLista();
    return "consulta";
}
public String logout() {
    return "logout";
}
```

```
public String cadastrar(){
    init();
    try{
        new ClienteDao().create(cliente); //grava
        cliente = new Cliente(); //limpa
        request.setAttribute("msg", "Dados Gravados do Cliente ...");
        //manda a mensagem
        //vá para success
        return SUCCESS;
    }catch(Exception ex){
```

```
        request.setAttribute("msg", "Error :" +
ex.getMessage());
        return ERROR;
    }
}
```

struts.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE struts PUBLIC
    "-//Apache Software Foundation//DTD Struts Configuration
    2.0//EN"
    "http://struts.apache.org/dtds/struts-2.0.dtd">

<struts>

    <constant name="struts.enable.DynamicMethodInvocation"
        value="false" />
    <constant name="struts.devMode" value="false" />
    <constant name="struts.custom.i18n.resources"
        value="ApplicationResources" />

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

        <result-types>
            <result-type name="tiles"
                class="org.apache.struts2.views.tiles.TilesResult" />
        </result-types>

        <action name="home" method="home"
            class="action.ControleCliente">
            <result name="success"
                type="tiles">home</result>
            <result name="error"
                type="tiles">/error.tiles</result>
        </action>

        <action name="cliente.gravar" method="cadastrar"
            class="action.ControleCliente">
            <result name="success"
                type="tiles">cadastro</result>
        </action>
    </package>
</struts>
```

```
        <result      name="error"
                    type="tiles">/error.tiles</result>
    </action>

    <action name="*Menu" method="{1}"
            class="action.ControleCliente">
        <result name="success" type="tiles">home</result>
        <result name="cadastro" type="tiles">cadastro</result>
        <result name="consulta" type="tiles">consulta</result>
    </action>

</package>
</struts>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app id="WebApp_ID" version="3.0"
xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd">

    <listener>
        <listener-
class>org.apache.struts2.tiles.StrutsTilesListener</listener-
class>
    </listener>

    <context-param>
        <param-name>tilesDefinitions</param-name>
        <param-value>/WEB-INF/tiles.xml</param-value>
    </context-param>

    <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>  
</web-app>
```

tiles.xml

```
<?xml version="1.0" encoding="UTF-8" ?>  
<!DOCTYPE tiles-definitions PUBLIC  
    "-//Apache Software Foundation//DTD Tiles Configuration  
    2.0//EN"  
    "http://tiles.apache.org/dtds/tiles-config_2_0.dtd">  
<tiles-definitions>  
  
    <definition name="baseLayout" template="/BaseLayout.jsp">  
        <put-attribute name="title" value="" />  
        <put-attribute name="header" value="/Header.jsp" />  
        <put-attribute name="menu" value="/Menu.jsp" />  
        <put-attribute name="body" value="" />  
        <put-attribute name="footer" value="/Footer.jsp" />  
    </definition>  
  
    <definition name="home" extends="baseLayout">  
        <put-attribute name="title" value="Welcome page" />  
        <put-attribute name="body" value="/Welcome.jsp" />  
    </definition>  
  
    <definition name="/error.tiles" extends="baseLayout">  
        <put-attribute name="title" value="Error page" />  
        <put-attribute name="body" value="/Error.jsp" />  
    </definition>  
  
    <definition name="cadastr0" extends="baseLayout">  
        <put-attribute name="title" value="Pagina de  
Cadastr0" />  
        <put-attribute name="body" value="/cadastr0.jsp" />  
    </definition>  
  
    <definition name="consulta" extends="baseLayout">  
        <put-attribute name="title" value="Pagina de  
Consulta" />  
        <put-attribute name="body" value="/consulta.jsp" />  
    </definition>  
  
</tiles-definitions>
```

style.css

```
@CHARSET "ISO-8859-1";
```

```
#header {  
    background-position:50% 0;  
    background-repeat:repeat no-repeat;  
}
```

```
#wrap {  
    margin-bottom:0;  
    margin-left:auto;  
    margin-right:auto;  
    margin-top:0;  
    overflow-x:hidden;  
    overflow-y:hidden;  
    padding-left:10px;  
    padding-right:10px;  
    position:relative;  
    width:980px;  
    min-height: 400px;  
}
```

```
#content {  
    display:inline;  
    float:left;  
    font-size:100%;  
    line-height:1.6em;  
    margin:15px;  
    padding:5px;  
    text-align:left;  
    width:580px;  
    min-height: 400px;  
}
```

```
#sidebar {  
    display:inline;  
    float:left;  
    margin:15px;  
    padding:5px;  
    width:300px;  
}
```

```
#footer {  
    background-position:50% 100%;  
    background-repeat:repeat no-repeat;  
    clear:both;  
    height:60px;  
    margin-bottom:0;  
    margin-left:auto;  
    margin-right:auto;  
    margin-top:0;  
    padding-bottom:10px;  
    padding-top:10px;  
    text-align:center;  
}
```

baseLayout.jsp

```
<%@ taglib uri="http://tiles.apache.org/tags-tiles"  
prefix="tiles"%>  
  
<!DOCTYPE HTML>  
<html>  
  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=UTF-  
8">  
<title><tiles:insertAttribute name="title" ignore="true"  
/></title>  
<link rel="stylesheet" type="text/css" media="all"  
href="style.css" />  
</head>  
  
<body id="home">  
    <div id="header">  
        <tiles:insertAttribute name="header" />  
    </div>  
  
    <div id="wrap">  
        <div id="content">  
            <tiles:insertAttribute name="body" />  
        </div>
```

```
        <div id="sidebar">
            <tiles:insertAttribute name="menu" />
        </div>
    </div>

    <div id="footer">
        <tiles:insertAttribute name="footer" />
    </div>
</body>
</html>
```

header.jsp

```
<%@ page contentType="text/html; charset=UTF-8"%>
<%@ taglib prefix="s" uri="/struts-tags"%>

<div class="container">
    <h1 class="well">Struts 2 Example - Tiles</h1>
</div>

<s:property value="title" />
```

footer.jsp

```
<%@ page contentType="text/html; charset=UTF-8"%>
<%@ taglib prefix="s" uri="/struts-tags"%>

<div class="container">
    <h4 class="well">
        <a
href="www.cotiinformatica.com.br">www.cotiinformatica.com.br</a>
    </h4>
</div>

<s:property value="footer" />
```

menu.jsp

```
<%@ page contentType="text/html; charset=UTF-8"%>
<%@ taglib prefix="s" uri="/struts-tags"%>
```

```
<ul class="nav nav-pills nav-stacked">
  <li class="active"><a href="<s:url
action="homeMenu"/>">Home</a></li>
  <li><a href="<s:url
action="cadastroMenu"/>">Cadastrar</a></li>
  <li><a href="<s:url
action="consultaMenu"/>">Consultar</a></li>
</ul>
```

index.jsp

```
<%@ page contentType="text/html; charset=UTF-8"%>
<%@ taglib prefix="s" uri="/struts-tags"%>

<html>

<head>
<title>Struts 2</title>
<link rel="stylesheet" href="bootstrap/css/bootstrap.css">
<script type="text/javascript"
src="bootstrap/js/jquery.js"></script>
<script type="text/javascript"
src="bootstrap/js/bootstrap.js"></script>

</head>

<body>

  <div class="container">
    <div class="well">
      <h2>Projeto - Template - Struts Tiles</h2>
      <s:actionerror />
      <s:a href="home.action">Entrar no Sistema</s:a>
    </div>
  </div>
</body>

</html>
```


Projeto - Template - Struts Tiles

[Entrar no Sistema](#)

welcome.jsp

```
<%@ page contentType="text/html; charset=UTF-8"%>
<%@ taglib prefix="s" uri="/struts-tags"%>
<html>

<head>
<%@taglib prefix="s" uri="/struts-tags"%>
<link rel="stylesheet" href="bootstrap/css/bootstrap.css" />
<script type="text/javascript"
src="bootstrap/js/jquery.js"></script>
<script type="text/javascript"
src="bootstrap/js/bootstrap.js"></script>
</head>

<body>
  <div class="col-sm-12">
    <div class="well">
      Bem vindo ao Struts 2

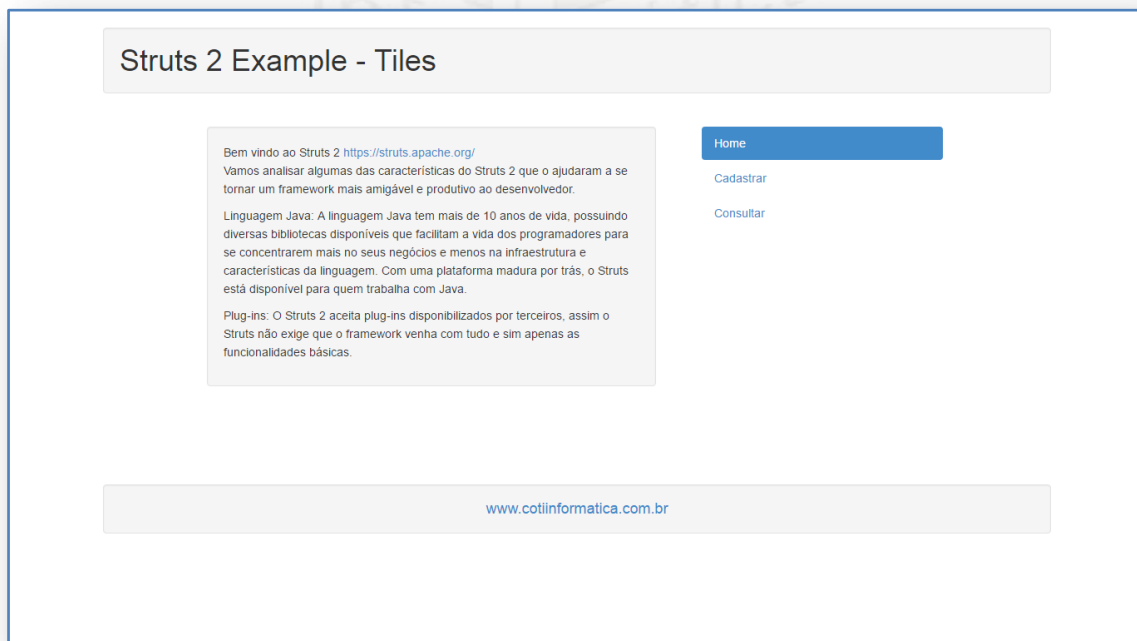
      <a
href="https://struts.apache.org/">https://struts.apache.org/</a>
    <br>
  </div>
</div>
</body>
</html>
```

<p>Vamos analisar algumas das características do Struts 2 que o ajudaram a se tornar um framework mais amigável e produtivo ao desenvolvedor.</p>

<p>Linguagem Java: A linguagem Java tem mais de 10 anos de vida, possuindo diversas bibliotecas disponíveis que facilitam a vida dos programadores para se concentrarem mais no seus negócios e menos na infraestrutura e características da linguagem. Com uma plataforma madura por trás, o Struts está disponível para quem trabalha com Java.</p>

<p>Plug-ins: O Struts 2 aceita plug-ins disponibilizados por terceiros, assim o Struts não exige que o framework venha com tudo e sim apenas as funcionalidades básicas.</p>

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



cadastro.jsp

```
<!DOCTYPE html>
<html>
<head>
  <%@ taglib prefix="s" uri="/struts-tags"%>
  <link rel="stylesheet" href="bootstrap/css/bootstrap.css">
  <script type="text/javascript"
src="bootstrap/js/jquery.js"></script>
  <script type="text/javascript"
src="bootstrap/js/bootstrap.js"></script>
</head>

<body>
  <div class="jumbotron">
    <ul class="nav nav-tabs">
      <li><a href="#">Cadastrar Cliente</a>
    </li>
    </ul>
  </div>

  <div class="row">
    <s:form action="cliente.gravar" cssClass="form1">
      <div class="col-sm-10">
        <label for="nome">Nome:</label>
        <input type="text" id="nome" name="cliente.nome"
class="form-control" />
      </div>

      <div class="col-sm-10">
        <label for="Email">Email:</label>
        <input type="text" id="email" name="cliente.email"
class="form-control" />
      </div>

      <div class="col-sm-10">
        <br/>
        <input type="submit" value="Cadastrar Cliente"
class="btn btn-primary" />
      </div>
    </s:form>
  </div>
</body>
```

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

Struts 2 Example - Tiles

Cadastrar Cliente

Nome:

Email:

Cadastrar Cliente

Home

Cadastrar

Consultar

www.cotiinformatica.com.br

Escola de Nerds

www.cotiinformatica.com.br

Cadastrando...

Struts 2 Example - Tiles

Cadastrar Cliente

Nome:

Email:

Cadastrar Cliente

Home

Cadastrar

Consultar

www.cotiinformatica.com.br

Cadastrado..

Struts 2 Example - Tiles

Cadastrar Cliente

Nome:

Email:

Cadastrar Cliente

Dados Gravados do Cliente ...

Home

Cadastrar

Consultar

www.cotiinformatica.com.br

consulta.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html >
<html>

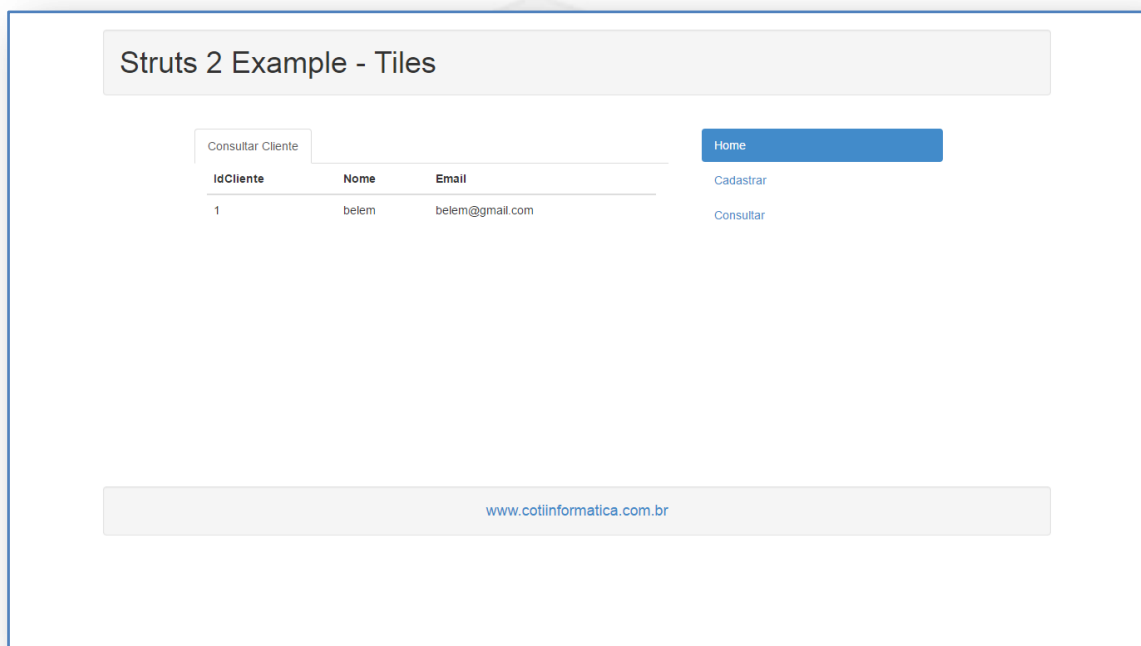
<head>
<%@taglib prefix="s" uri="/struts-tags"%>
<link rel="stylesheet" href="bootstrap/css/bootstrap.css" />
<script type="text/javascript"
src="bootstrap/js/jquery.js"></script>
<script type="text/javascript"
src="bootstrap/js/bootstrap.js"></script>
</head>

<body>

    <div>
        <ul class="nav nav-tabs">
            <li class="active"><a href="#">Consultar
Cliente</a></li>
        </ul>

        <div class="col-sm-12">
            <table class="table table-hover">
                <thead>
                    <tr>
                        <th>IdCliente</th>
                        <th>Nome</th>
                        <th>Email</th>
                    </tr>
                </thead>
                <tbody>
                    <s:iterator value="Lista">
                        <tr>
                            <td><s:property
value="idCliente" /></td>
                            <td><s:property
value="nome" /></td>
```

```
value="email" /></td>
                                <td><s:property
                                </tr>
                                </s:iterator>
                                </tbody>
                                </table>
                                </div>
                                </div>
                                </body>
```



Struts 2 Example - Tiles

Consultar Cliente

IdCliente	Nome	Email
1	belem	belem@gmail.com

Home

Cadastrar

Consultar

www.cotiinformatica.com.br

```
MySQL 5.5 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 214
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 bd_tiles;
Database changed
mysql> show tables;
+-----+
| Tables_in_bd_tiles |
+-----+
| cliente            |
+-----+
1 row in set (0.00 sec)

mysql> select * from cliente;
+-----+-----+-----+
| idCliente | email          | nome  |
+-----+-----+-----+
|          1 | belem@gmail.com | belem |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> _
```

error.jsp

error page.
