





Linguagem Técnica de Programação Web

Aula 5 – Desenvolvendo uma aplicação JSP com JDBC – Parte 1 (insert)

Prof. João Paulo Pimentel joao.pimentel@projecao.br



Model-View-Controller (MVC)



Objetivo:

- → Separar dados ou lógica de negócios (Model) da interface do usuário (View) e do fluxo da aplicação (Control)
- → A ideia é permitir que uma mesma lógica de negócios possa ser acessada e visualizada através de várias interfaces.
- → Na arquitetura MVC, a lógica de negócios (chamaremos de Modelo) não sabe de quantas e nem quais interfaces com o usuário estão exibindo seu estado.
- → Com as diversas possibilidades de interfaces que conhecemos hoje, a MVC é uma ferramenta indispensável para desenvolvermos sistemas



Criando o Banco no MySQL



No MySQL Workbench criar o DATABASE **Login** e a tabela **tb_login**, conforme abaixo:

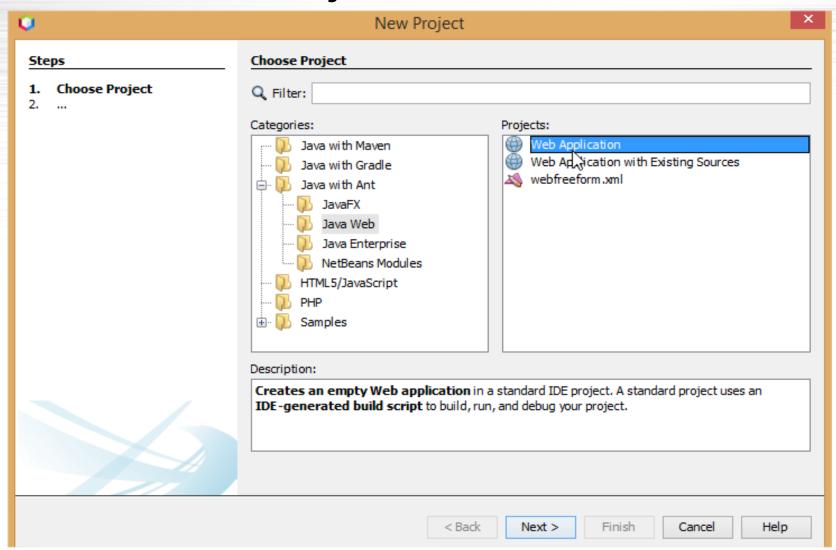
```
CREATE SCHEMA IF NOT EXISTS 'Login' DEFAULT CHARACTER SET utf8;
Use `Login`;
CREATE TABLE IF NOT EXISTS `Login`.`tb_login` (
 'id' INT NOT NULL AUTO INCREMENT,
 `email` VARCHAR(50) NOT NULL,
 `senha` VARCHAR(8) NOT NULL,
  PRIMARY KEY ('id'))
ENGINE = InnoDB;
select * from tb login;
```



Criando o Projeto no NETBEANS



Criar um novo Projeto Web





Criando o Projeto no NETBEANS



Project Name: Login

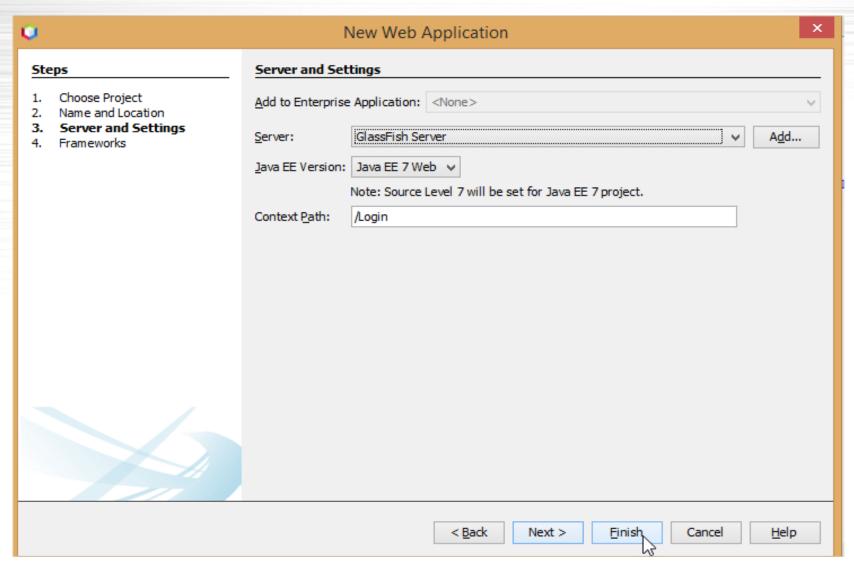
| Q | | ١ | New Web Application | × |
|--------------------------------|-------------------------------|---------------------------|---|--------|
| Steps | | Name and Loca | ition | |
| Choose Project Name and Lo | se Project ne and Location | Project <u>N</u> ame: | Login | |
| Server and Set Frameworks | | Project <u>L</u> ocation: | C:\xampp\tomcat\webapps | Browse |
| | | Project <u>F</u> older: | C:\xampp\tomcat\webapps\Login | |
| | | Use <u>D</u> edicated | | |
| | | Libraries Folder: | | Browse |
| | | | Different users and projects can share the same compilation libraries (see Help for details). | |
| | | | | |
| | | | | |
| | | | Ĺ₽. | |



Criando o Projeto no NETBEANS



Server: GlassFish Server

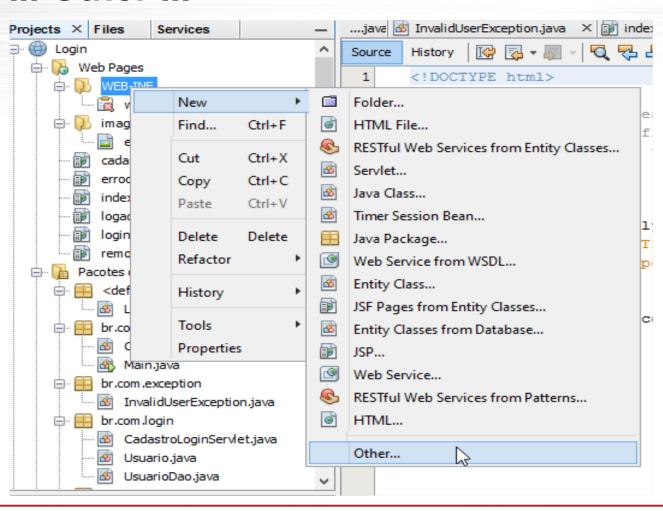




Criando o web.xml



New ... Other ...

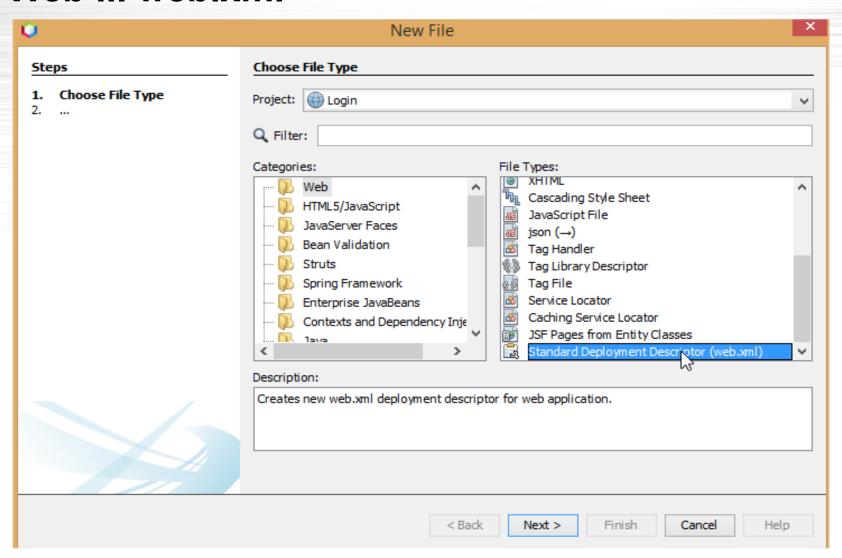




Criando o web.xml



Web ... web.xml

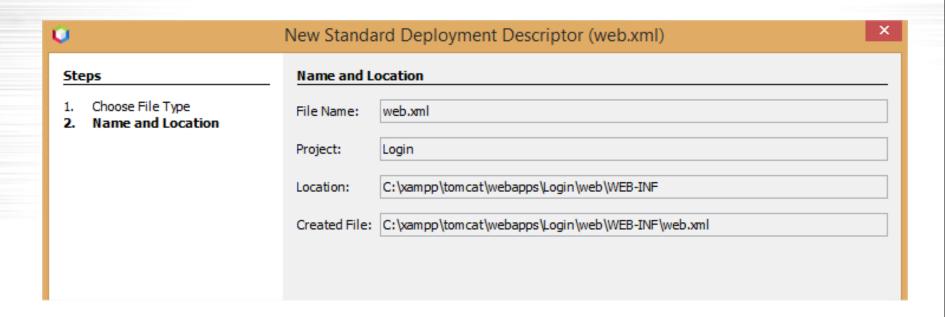




Criando o web.xml



Finish e o arquivo será criado na pasta WEB-INF





Código do web.xml



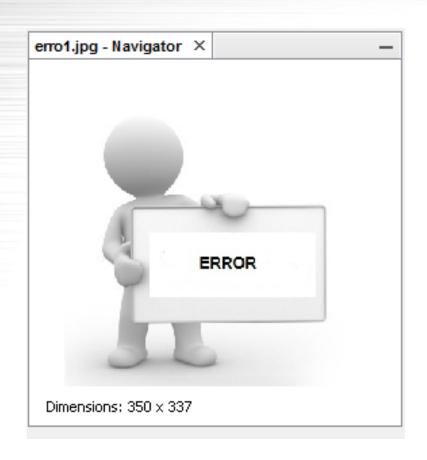
```
<?xml version="1.0" encoding="UTF-8"?>
      <web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"</pre>
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 4
               xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
               http://xmlns.jcp.org/xml/ns/javaee/web-app 3 1.xsd"
 6
          <servlet>
              <servlet-name>CadastroLoginServlet</servlet-name>
              <servlet-class>br.com.login.CadastroLoginServlet</servlet-class>
          </servlet>
10
          <servlet>
11
              <servlet-name>LoginControllers</servlet-name>
12
              <servlet-class>LoginControllers</servlet-class>
13
          </servlet>
14
          <servlet-mapping>
15
              <servlet-name>CadastroLoginServlet</servlet-name>
16
              <url-pattern>/CadastroLogin</url-pattern>
17
          </servlet-mapping>
18
          <servlet-mapping>
              <servlet-name>LoginControllers</servlet-name>
19
20
              <url-pattern>/Login</url-pattern>
21
          </servlet-mapping>
22
          <session-config>
23
              <session-timeout>
24
                  30
25
              </session-timeout>
26
          </session-config>
27
      </web-app>
```

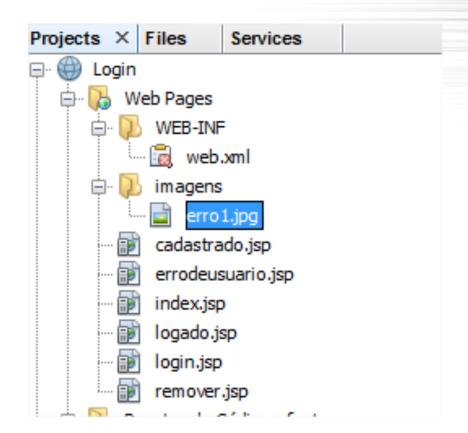


Imagem do Projeto (erro1.jpg)



A imagem erro1.jpg (enviar no Blog)







Index.jsp



```
| 🔯 👨 - 👼 - | 💐 🗫 🞝 🖶 📮 | 🚱 😓 | 🖭 🖭 | 🧼 🗉
     History
Source
Q
     <%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
2
         pageEncoding="ISO-8859-1"%>
3
     <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
         "http://www.w3.org/TR/html4/loose.dtd">
 4
5
     <html>
6
     <head>
7
     <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
     <title>Insert title here</title>
 8
     </head>
     <body>
10
11
              <h1>Cadastrar Login</h1>
12
         <form name="frmCadastrarLogin" action="CadastroLogin" method="post">
13
14
15
           16
             Email.:<input type="text" name="email">
             Senha.:<input type="password" name="senha">
17
18
19
               <input type="submit" value="cadastrar"/>
20
21
           </form>
22
23
         24
     </body>
     </html>
```



login.jsp → Parte 1



```
o
      < to page language="java" contentType="text/html; charset=ISO-8859-1"
          pageEncoding="ISO-8859-1"%>
3
      <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
          "http://www.w3.org/TR/html4/loose.dtd">
5
      <html>
      <head>
7
      <script type="text/javascript">
        function validarLogin() {
              if (document.formLogin.email.value==="") {
10
                       alert ("Campo Usuário Não Informado");
11
                       return false:
12
13
              if (document.formLogin.senha.value==="") {
14
                       alert ("Campo Senha Não Informado");
15
                       return false:
16
17
18
              document.formLogin.submit();
19
20
      </script>
      <title>Acessar</title>
21
22
      </head>
```



login.jsp → Parte 2



```
20
    </script>
21
    <title>Acessar</title>
22
    </head>
23
    <body>
24
    <!-- <form name="formLogin" action="Login" method="post"> -->
25
    <form name="formLogin" action="Login" method="post">
26
       27
        0
           Usuario:<input type="text" name="email"/>
29
           Senha:<input type="password" name="senha"/>
30
           <input type="button" value="Entrar"
                onclick="validarLogin()"/>
31
32
        33
       34
     </form>
35
    </body>
36
    </html>
```



cadastrado.jsp

< e page language="java" contentType="text/html; charset=ISO-8859-1"



```
o
              pageEncoding="ISO-8859-1"%>
      <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
          "http://www.w3.org/TR/html4/loose.dtd">
      <html>
      <head>
      <script language="Javascript">
              var timer = 2;
              function countdown() {
10
                       if (timer > 0) {
                               timer -= 1;
11
12
                               setTimeout("countdown()", 3000);
   白
13
                       } else {
14
                               location.href = 'login.jsp';
15
16
17
              countdown();
      </script>
18
19
      <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
      <title>Insert title here</title>
20
21
      </head>
22
      <body>
23
              <%
                       String email = (String) request.getAttribute("email");
                       out.println("<h4>Email " + email + " Cadastrado com sucesso<h4>");
24
25
                       out.println("Você será redirecionado para pagina de login");
26
              ~용
27
      </body>
28
      </html>
```



errodeusuario.jsp > Parte 1



```
o
      <%@page isErrorPage="true" %>
2
      <%@page import="java.util.Enumeration" %>
 3
      <%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
          pageEncoding="ISO-8859-1"%>
 4
 5
      <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
 6
          "http://www.w3.org/TR/html4/loose.dtd">
      <html>
      <head>
      <style type="text/css">
10
       body{ background-color:#fff;}
      #cabecalho{
11
12
            background-color:#fff;
13
            width:800px;
14
            height:100px;
15
16
17
      #corpo{
18
            background-color: #fff;
19
            width:800px;
20
            height: 450px;
21
22
      #rodape{
23
            background-color:#fff;
24
            width:800px;
25
            height:100px;
26
27
      </style>
```



28

errodeusuario.jsp → Parte 2



```
29
      <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
      <title>Error</title>
30
    - </head>
31
32
   dody>
      <body>
33
   div align="center">
34
35
      <div id="cabecalho"> </div>
36
      <div id="corpo">
37
38
           <img src="imagens/erro1.jpg"/>
39
           \langle hr/ \rangle
              <h3> Email e Senha incorretos </h3><br/>
40
           <br/>
41
42
           \langle hr/ \rangle
43
           <a href="login.jsp">Tentar Novamente</a> <a href="index.jsp">Cadastre-se</a>
44
45
    - </div>
       <div id="rodape">
46
                           </div>
47
48
    - </div>
49
50
      </body>
      </html>
51
```



logado.jsp



```
< @ page language="java" contentType="text/html; charset=ISO-8859-1"
          pageEncoding="ISO-8859-1"%>
 3
      <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
          "http://www.w3.org/TR/html4/loose.dtd">
      <html>
     <head>
      <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
      <title>Logado</title>
 9
     </head>
10
      <body>
11
           <%
             String email = (String) session.getAttribute("email");
12
13
           %>
14
           Seja bem Vindo : <%=email %> | <a href="remover.jsp">Sair</a>
15
16
17
          <h1>Logado</h1>
18
          <hr>>
      </body>
19
      </html>
```



remover.jsp

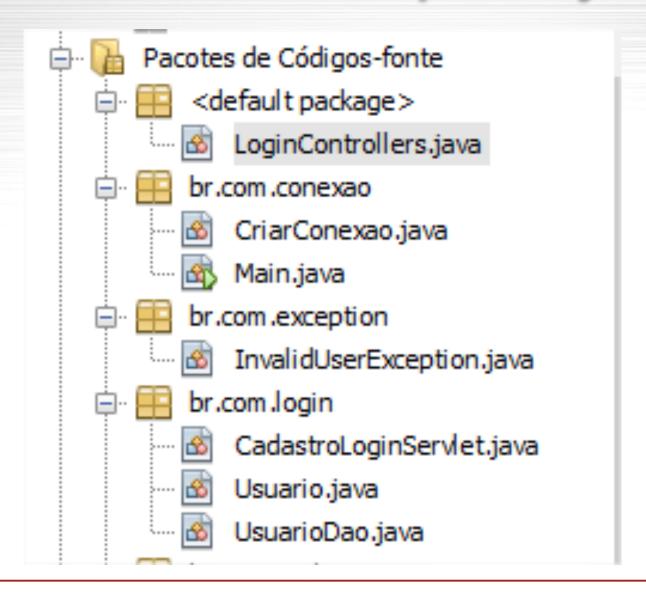


```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
          pageEncoding="ISO-8859-1"%>
 3
      <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
          "http://www.w3.org/TR/html4/loose.dtd">
      <html>
5
     <head>
      <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
 8
      <title>Insert title here</title>
      </head>
10
      <body>
11
           <%
12
             session.removeAttribute("email");
13
             response.sendRedirect("login.jsp");
14
           %>
15
      </body>
      </html>
```



Estrutura dos arquivos .java







LoginControllers.java → Parte 1



```
import br.com.conexao.CriarConexao;
2
      import java.io.IOException;
3
      import java.sql.Connection;
      import java.sql.PreparedStatement;
5
      import java.sql.ResultSet;
      import java.sql.SQLException;
      import javax.servlet.ServletException;
      import javax.servlet.http.HttpServlet;
      import javax.servlet.http.HttpServletRequest;
      import javax.servlet.http.HttpServletResponse;
10
      import javax.servlet.http.HttpSession;
11
12
13
      public class LoginControllers extends HttpServlet {
14
15
        // private static final long serialVersionUID = 1L;
16
17
          @Override
0
          protected void doPost(HttpServletRequest request, HttpServletResponse response)
19
                  throws ServletException, IOException {
              String emailBuscado = "";
20
              String senhaBuscada = "";
22
              Connection con:
              String email = request.getParameter("email");
23
              String senha = request.getParameter("senha");
24
              String sql = "Select * from tb login where email = ? and senha = ?";
26
```



LoginControllers.java → Parte 2



```
28
              trv {
29
                  con = CriarConexao.getConexao();
                  PreparedStatement stmt = con.prepareStatement(sgl);
                  stmt.setString(1, email);
32
                  stmt.setString(2, senha);
33
34
                  ResultSet rs = stmt.executeQuery();
35
                  while (rs.next()) {
36
                      emailBuscado = rs.getString("email");
37
                      senhaBuscada = rs.getString("senha");
38
39
                  rs.close();
                  stmt.close();
40
              } catch (SQLException e) {
41
                  e.printStackTrace();
43
44
              if (emailBuscado.equals(email) || senhaBuscada.equals(senha)) {
45
                  HttpSession session = request.getSession();
                  session.setAttribute("email", email);
46
                  request.getRequestDispatcher("logado.jsp").forward(request, response);
48
              } else {
                  System.out.println(emailBuscado + "-" + email);
49
                  System.out.println(senhaBuscada + "-" + senha);
50
                  request.getRequestDispatcher("errodeusuario.jsp").forward(request, response);
51
52
53
54
```



CriarConexao.java



```
package br.com.conexao;
     import java.sql.Connection;
     import java.sql.DriverManager;
     import java.sql.SQLException;
     public class CriarConexao {
         public static Connection getConexao() throws SQLException {
10
   try {
                 Class.forName("com.mysql.jdbc.Driver");
                 System.out.print("conectou");
                  return DriverManager.getConnection("jdbc:mysql://localhost:3306/Login", "root", "root");
              } catch (SQLException e) {
                  throw new SQLException(e);
              } catch (ClassNotFoundException e1) {
                 throw new SQLException(e1);
```



Main.java



```
package br.com.conexao;
 3
      import java.sql.Connection;
 5
      import java.sql.SQLException;
      public class Main {
9
10
          public static void main(String[] args) throws SQLException {
11
              Connection con = CriarConexao.getConexao();
12
13
14
```



InvalidUserException.java



```
package br.com.exception;
3
     import javax.servlet.ServletException;
     public class InvalidUserException extends ServletException {
          public InvalidUserException(String message) {
10
              super(message);
11
12
13
```



CadastroLoginServlet.java Parte 1



```
package br.com.login;
import br.com.conexao.CriarConexao;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class CadastroLoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
        public CadastroLoginServlet() {
                super();
```



CadastroLoginServlet.java Parte 2



```
@Override
23
0
              protected void doPost(HttpServletRequest request, HttpServletResponse response)
25
                              throws ServletException, IOException {
26
                      PrintWriter writer = response.getWriter();
                      String email = request.getParameter("email");
                      String senha = request.getParameter("senha");
30
                      Connection con:
31
                      try {
                              con = CriarConexao.getConexao();
33
                              Usuario u = new Usuario();
34
35
                              u.setEmail(email);
36
                              u.setSenha(senha);
37
38
                              UsuarioDao dao = new UsuarioDao(con);
39
                              dao.adicionar(u);
                              request.setAttribute("email", u.getEmail());
40
                               request.getRequestDispatcher("cadastrado.jsp").forward(request, response);
41
                      } catch (SQLException e) {
43
                               e.printStackTrace();
46
```



Usuario.java



```
1
      package br.com.login;
      public class Usuario {
          private int id;
          private String email;
          private String senha;
          public int getId() {
               return id;
10
11
          public void setId(int id) {
               this.id = id;
12
13
14 🖃
          public String getEmail() {
15
               return email:
16
17
          public void setEmail(String usuario) {
18
               this.email = usuario;
19
20 -
          public String getSenha() {
21
               return senha;
22
23 -
          public void setSenha(String senha) {
-24
               this.senha = senha;
25
26
```



UsuarioDAO.java Parte 1



```
package br.com.login;
 3
      import java.sql.Connection;
      import java.sql.PreparedStatement;
      import java.sql.SQLException;
      public class UsuarioDao {
          private Connection con;
          public UsuarioDao(Connection con) {
10
              this.con = con;
11
12
          public void adicionar (Usuario u) throws SQLException {
13
14
              String sql = "insert into tb login(email, senha) values(?,?)";
15
16
              try {
                  PreparedStatement stmt = con.prepareStatement(sql);
18
19
                  stmt.setString(1, u.getEmail());
20
                  stmt.setString(2, u.getSenha());
21
22
                  stmt.execute();
                  stmt.close();
23
```



UsuarioDAO.java Parte 2





Executando a aplicação



Cadastrar Login

| Email.: | jpapin | n@gmail.con | n | Senha.: | ••••• | | | cadastrar |
|---------|--------|-------------|----------------|---------|------------|----------------|-----|-----------|
| | < | | | | | | | |
| | Re | sult Grid | | 43 | Filter Rov | ws: | | |
| | | id | email | | | senha | | |
| | | 1 NULL | idadim NULL | @amai | il.com | 123456 NULL | 578 | |
| | | | | | | | | |



Executando a aplicação







Executando a aplicação







Seja bem Vindo : jpapim@gmail.com | Sair

Logado



"Zé-cício"



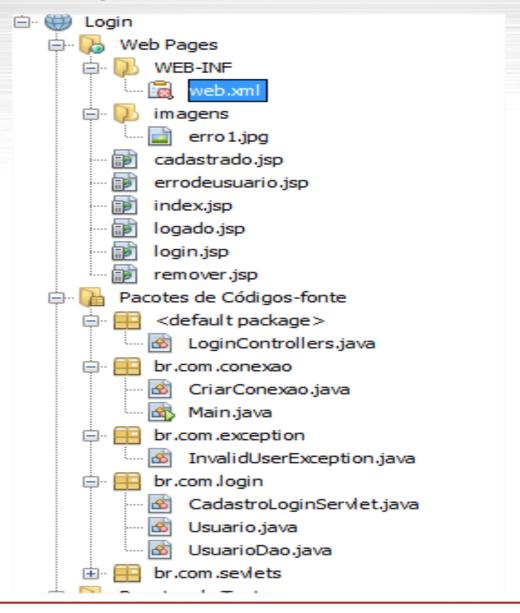
Alterar o Banco de Dados, arquivos .jsp e .java da aplicação de Cadastrar Login, ou seja, incluindo o campo "Nome", conforme abaixo:

| 3 Insert title here X | | | |
|---|---------|---------|-----------|
| \leftarrow \rightarrow C (i) localhost:8081/ | Login/ | | |
| Cadastrar Lo | gin | | |
| Nome: | Email.: | Senha.: | cadastrar |
| | | | |
| | | | |



Implementar seguindo o modelo apresentado na aula:











Até a próxima aula...