



Web Java Server Pages

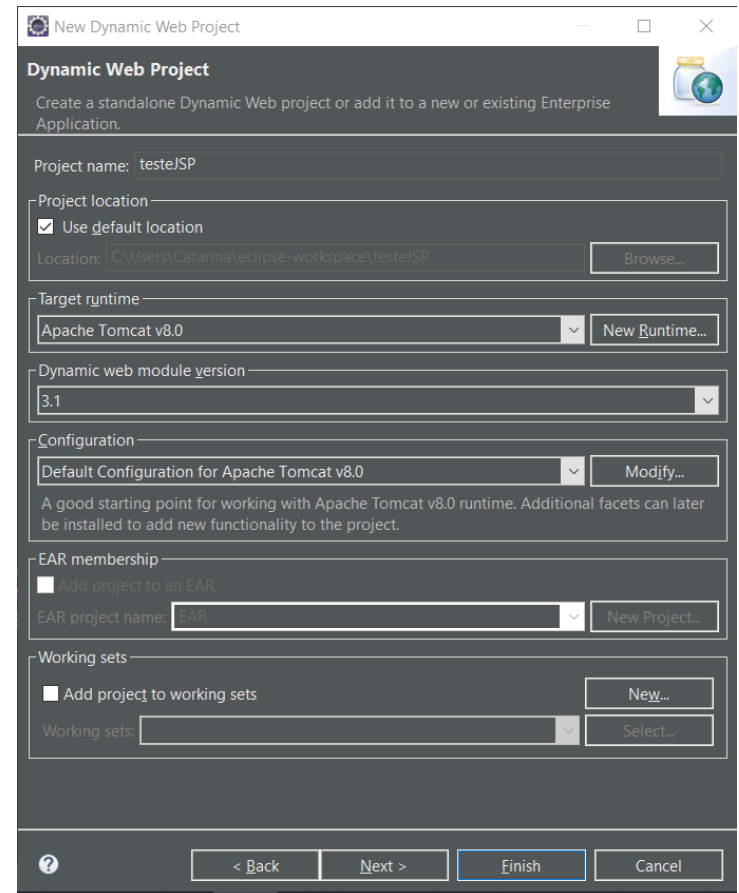
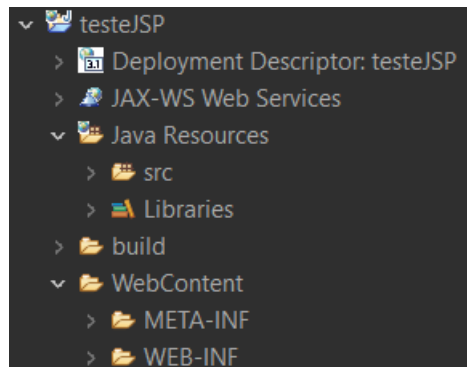
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E TECNOLOGIA

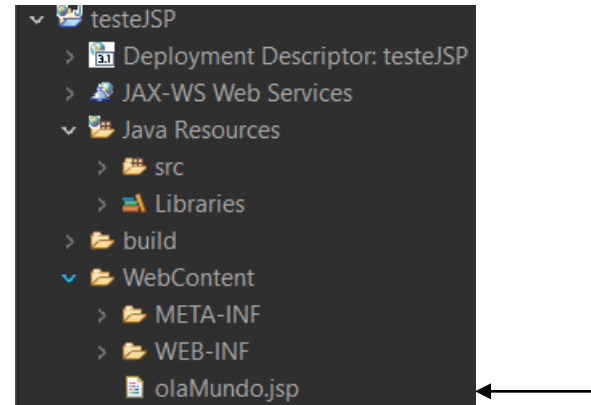
Creation

On Eclipse:

1. File > New
2. Web > Dynamic Web Project
3. Insert name
4. Choose target runtime
5. Choose Dynamic web module version
6. Finish



Servlet structure (example 0)



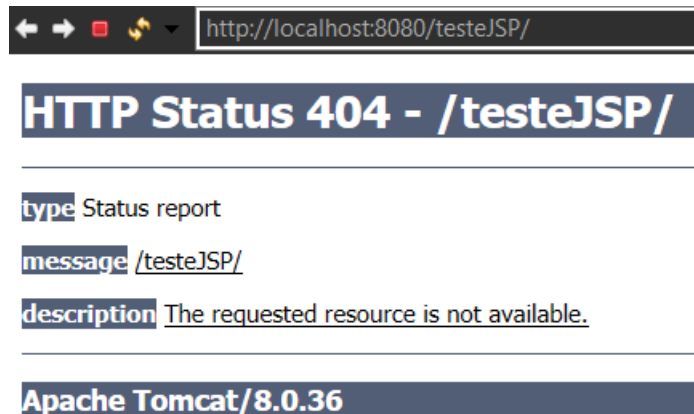
File olaMundo.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
4 <html>
5 <head>
6 <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
7 <title>JSP - Hello World Tutorial - Programmer Gate</title>
8 </head>
9 <body>
10 <%= "Hello World!" %>
11 </body>
12 </html>
```

Running (example 0)

1. Right-click the project
2. Run > Run on Server
3. Finish

On eclipse:



Changing the URL to <http://localhost:8080/testeServlets/olaMundo>:



(available in any browser)

Example 1

```

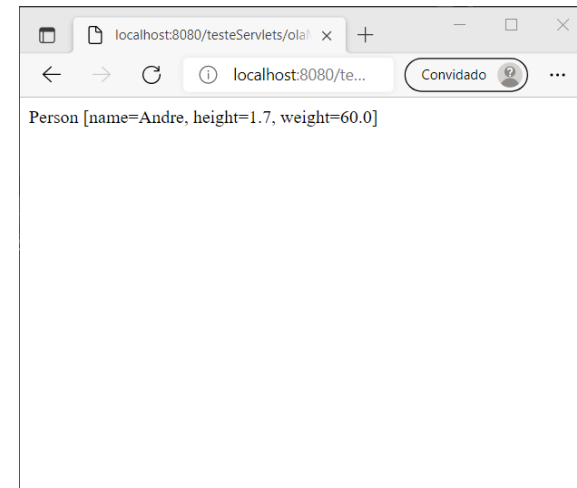
1 public class Person {
2     private String name;
3     private double height;
4     private double weight;
5
6     public Person(String name, double height, double weight) {
7         super();
8         this.name = name;
9         this.height = height;
10        this.weight = weight;
11    }
12
13    public double imc() {
14        return weight/(height*height);
15    }
16
17    @Override
18    public String toString() {
19        return "Person [name=" + name + ", height=" + height + ", weight=" + weight + "]";
20    }
21
22    public String getName() {
23        return name;
24    }
25
26    public void setName(String name) {
27        this.name = name;
28    }
29
30    public double getHeight() {
31        return height;
32    }
33
34    public void setHeight(double height) {
35        this.height = height;
36    }
37
38    public double getWeight() {
39        return weight;
40    }
41
42    public void setWeight(double weight) {
43        this.weight = weight;
44    }
45 }

```

```

1 <%@page import="testeJSP.Person"%>
2 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
3     pageEncoding="ISO-8859-1"%>
4 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
5 <html>
6 <head>
7     <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
8     <title>JSP - Hello World Tutorial - Programmer Gate</title>
9 </head>
10 <body>
11 <%
12     Person p = new Person("Andre", 1.70, 60);
13     out.println(p);
14 %>
15 </body>
16 </html>

```

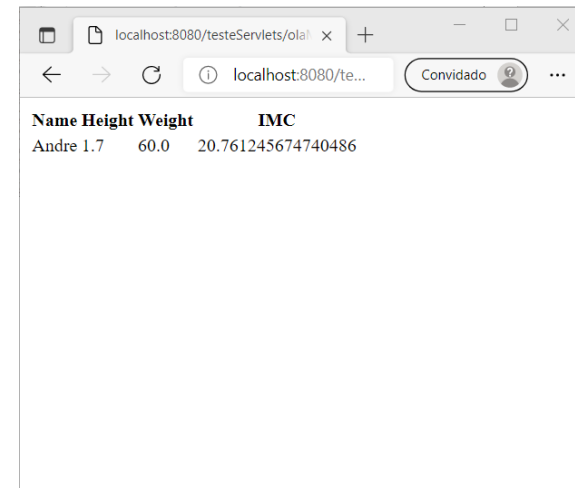


Example 2

```

1  <%@page import="testeJSP.Person"%>
2  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
3    pageEncoding="ISO-8859-1"%>
4  <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
5  <html>
6  <head>
7    <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
8    <title>JSP - Hello World Tutorial - Programmer Gate</title>
9  </head>
10 <body>
11 <%
12   Person p = new Person("Andre", 1.70, 60);
13 %>
14 <table>
15 <tr><th>Name</th><th>Height</th><th>Weight</th><th>IMC</th></tr>
16 <tr><td><%= p.getName() %></td><td><%= p.getHeight() %></td><td><%= p.getWeight() %></td><td><%= p.imc() %></td></tr>
17 </table>
18 </body>
19 </html>

```

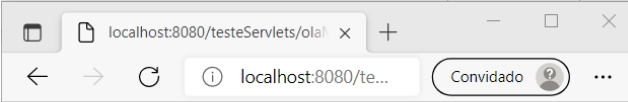


Example 3

```

1  <%@page import="testeJSP.Person"%>
2  <%@page import="java.util.ArrayList"%>
3  <%@page language="java" contentType="text/html; charset=ISO-8859-1"
4    pageEncoding="ISO-8859-1"%>
5  <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
6  <html>
7  <head>
8    <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
9    <title>JSP - Hello World Tutorial - Programmer Gate</title>
10  </head>
11  <body>
12    <%
13      ArrayList<Person> persons = new ArrayList<Person>();
14      persons.add(new Person("Andre", 1.70, 60));
15      persons.add(new Person("Bob", 1.50, 80));
16      persons.add(new Person("Charles", 1.80, 50));
17    %>
18    <table>
19      <tr><th>Name</th><th>Height</th><th>Weight</th><th>IMC</th></tr>
20    <%
21      for(Person p: persons) {
22        out.print("<tr>");
23        out.print("<td>" + p.getName() + "</td>");
24        out.print("<td>" + p.getHeight() + "</td>");
25        out.print("<td>" + p.getWeight() + "</td>");
26        out.print("<td>" + p.imc() + "</td>");
27        out.println("</tr>");
28      }
29    %>
30  </table>
31  </body>
32  </html>

```



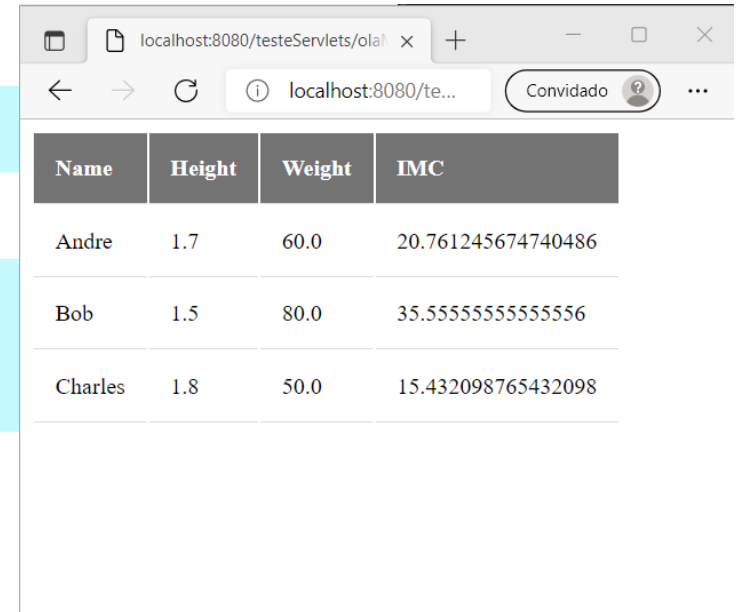
Name	Height	Weight	IMC
Andre	1.7	60.0	20.761245674740486
Bob	1.5	80.0	35.555555555555556
Charles	1.8	50.0	15.432098765432098

Example 4

```

1  <%@page import="testeJSP.Person"%>
2  <%@page import="java.util.ArrayList"%>
3  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
4    pageEncoding="ISO-8859-1"%>
5  <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
6  <html>
7  <head>
8    <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
9    <link rel="stylesheet" href="css/style.css">
10   <title>JSP - Hello World Tutorial - Programmer Gate</title>
11 </head>
12 <body>
13 <%
14 ArrayList<Person> persons = new ArrayList<Person>();
15 persons.add(new Person("Andre", 1.70, 60));
16 persons.add(new Person("Bob", 1.50, 80));
17 persons.add(new Person("Charles", 1.80, 50));
18 %>
19 <table>
20 <tr><th>Name</th><th>Height</th><th>Weight</th><th>IMC</th></tr>
21 <%
22 for(Person p: persons) {
23   out.print("<tr>");
24   out.print("<td>" + p.getName() + "</td>");
25   out.print("<td>" + p.getHeight() + "</td>");
26   out.print("<td>" + p.getWeight() + "</td>");
27   out.print("<td>" + p.imc() + "</td>");
28   out.println("</tr>");
29 }
30 %>
31 </table>
32 </body>
33 </html>

```



Name	Height	Weight	IMC
Andre	1.7	60.0	20.761245674740486
Bob	1.5	80.0	35.55555555555556
Charles	1.8	50.0	15.432098765432098

```

1  th {
2    background-color: #737373;
3    color: white;
4  }
5
6  th, td {
7    padding: 15px;
8    text-align: left;
9    border-bottom: 1px solid #ddd;
10 }

```


Example 5

```

1  p, legend, label {
2      font-style: italic;
3  }
4
5  input[type=email] {
6      height: 20px;
7  }
8
9  input[type=password] {
10     height: 20px;
11 }
12
13 button {
14     height: 30px;
15     color: white;
16     font-style: italic;
17     font-weight: bold;
18     border-radius: 12px;
19 }
20
21 button[type=submit] {
22     background-color: #1f5709;
23 }

```

```

1  <html>
2  <head>
3      <title>Login</title>
4      <link rel="stylesheet" href="css/estilo.css">
5  </head>
6  <body>
7      <p> Introduzir dados de login </p>
8      <form action="processLogin.jsp" method="post">
9          <fieldset>
10             <legend>Dados Pessoais:</legend>
11             <label>Email:</label><br>
12             <input name="email" type="email"><br>
13             <label>Password:</label><br>
14             <input name="password" type="password"><br>
15             <button type="submit">Login</button>
16          </fieldset>
17      </form>
18  </body>
19 </html>

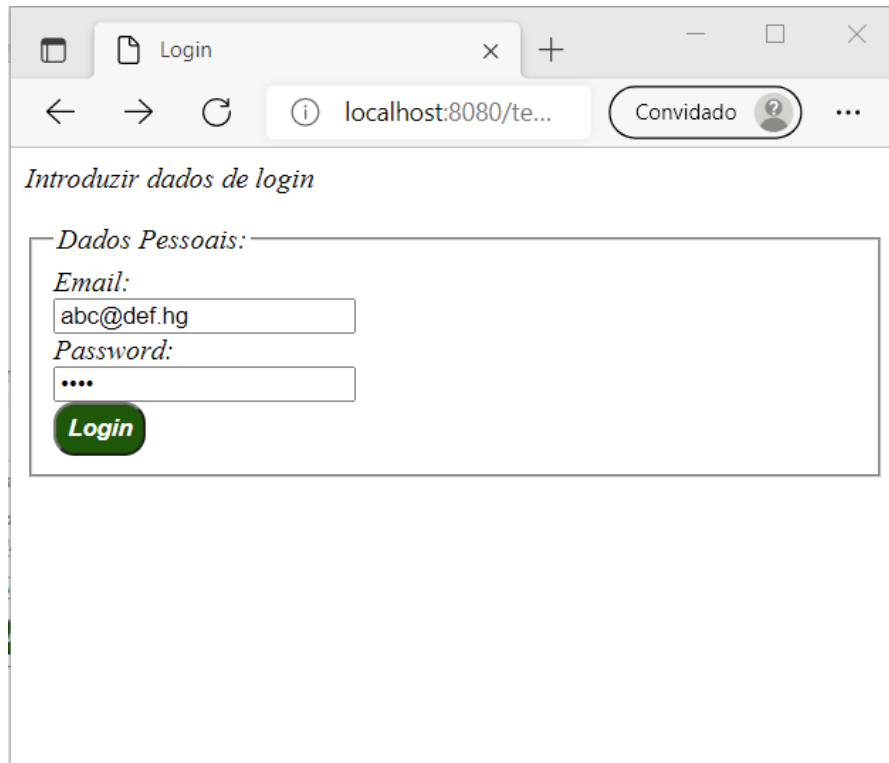
```

```

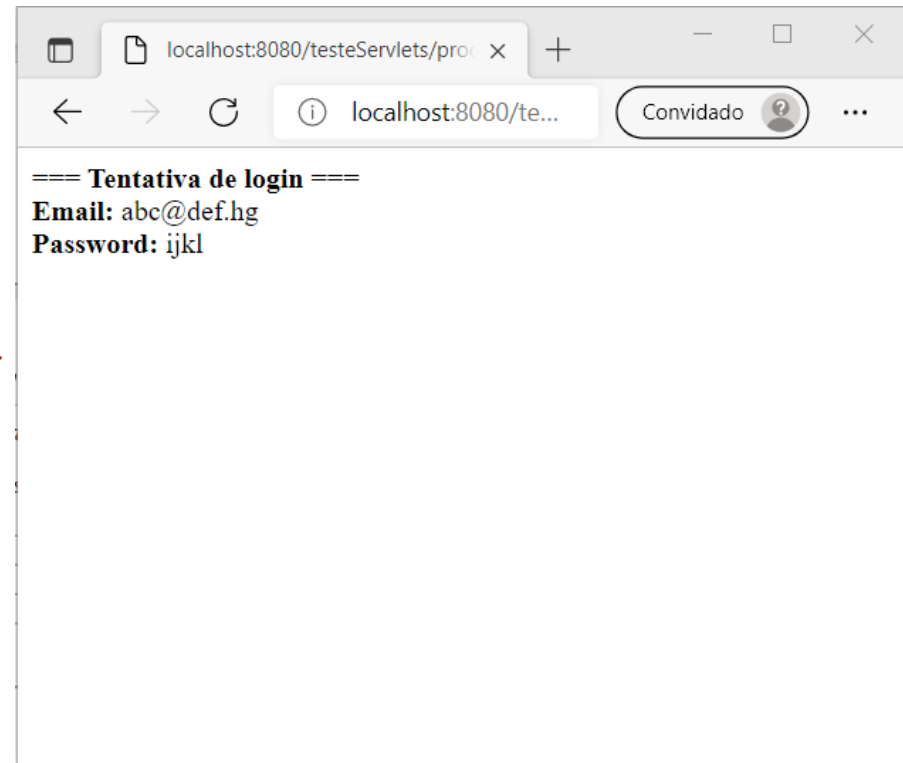
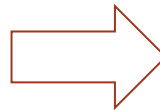
1  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2      pageEncoding="ISO-8859-1"%>
3  <!DOCTYPE html>
4  <html>
5  <head>
6      <meta charset="ISO-8859-1">
7      <title>Insert title here</title>
8  </head>
9  <body>
10 <%
11     String email = request.getParameter("email");
12     String passwd = request.getParameter("password");
13
14     out.println("<html>");
15     out.println("<head>");
16     out.println("<link rel='stylesheet' href='css/style.css'>");
17     out.println("</head>");
18     out.println("<body>");
19     out.println("<b>=== Tentativa de login ===</b><br>");
20     out.println("<b>Email:</b> " + email + "<br>");
21     out.println("<b>Password:</b> " + passwd + "<br>");
22     out.println("</body>");
23     out.println("</html>");
24     out.close();
25 %>
26 </body>
27 </html>

```

Example 5



A screenshot of a web browser window with the title "Login". The address bar shows "localhost:8080/te...". The page content includes the heading "Introduzir dados de login" and a section titled "Dados Pessoais:". Below this, there are two input fields: "Email:" with the value "abc@def.hg" and "Password:" with masked characters "....". A green "Login" button is positioned below the password field.



A screenshot of a web browser window showing the result of a login attempt. The address bar shows "localhost:8080/testeServlets/proc...". The page content displays "=== Tentativa de login ===", "Email: abc@def.hg", and "Password: ijkl".



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Do conhecimento à prática.