

JBDC 6

For this exercise, we will program a little login program, using a html form and java to process data.

This is the html code. We have a form to introduce data.

```
<!DOCTYPE html>
<html lang="es">
<head>
<meta charset="UTF-8">
<title>Login Amazon</title>
</head>
<body>
<h2>Login</h2>
<form action="servlet" method="post">
E-mail or phone number<br>
<input type="text" name="email" required></input><br>
Password<br>
<input type="password" name="contrasena" required></input><br>
<input type="submit" value="Login">

<br><br>

<input type="checkbox" value="recuerdame">Remember me</input>

<br><br>

Are you new in Amazon?

<br>

<input type="button" value="Register">
</form>
</body>
</html>
```

It looks like this:

← → ↻ localhost:8080/Proyecto1/parametros.html ☆ 📁 😊 📄 ☰

Login

E-mail or phone number

Password

Login

☐ Remember me

Are you new in Amazon?
Register

And this is the code to process the form and make a functional login:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class MiServlet extends HttpServlet
{
    public void doPost(HttpServletRequest petition, HttpServletResponse respuesta) throws
    ServletException, IOException {

        respuesta.setContentType("text/html");
        PrintWriter salida = respuesta.getWriter();

        // Get parameters
        String email = petition.getParameter("email");
        String contrasena = petition.getParameter("contrasena");
        // Clean spaces using trim function
        email = email.trim();
        contrasena = contrasena.trim();

        // Start creating table
        String titulo = "Conexión JDBC a MySQL";
        salida.println("<TITLE>" + titulo + "</TITLE>\n");
        salida.println("<BODY BGCOLOR=\"#FDF5E6\">\n");
        salida.println("<H1 ALIGN=CENTER>" + titulo + "</H1>\n\n");
        // Initialize connection
        Connection miconexion = null;
        try
        {
```

```

// Create variables to access database
String SourceURL =
"jdbc:mysql://localhost/bdprueba?allowPublicKeyRetrieval=true&useSSL=false";
String user = "alumno";
String password = "mipassword";

// Initialize results
ResultSet misresultados;
// Create connection and query and execute it
miconexion = DriverManager.getConnection(SourceURL, user, password);
String query = "SELECT * FROM users";
PreparedStatement stmtSelect = miconexion.prepareStatement(query);
misresultados = stmtSelect.executeQuery();
// Loop to compare the user parameters with all the users of db
while (misresultados.next()) {
// Get db user with his parameters
String emailbd = misresultados.getString("email");
String passwordbd = misresultados.getString("password");
String phonebd = misresultados.getString("phone");

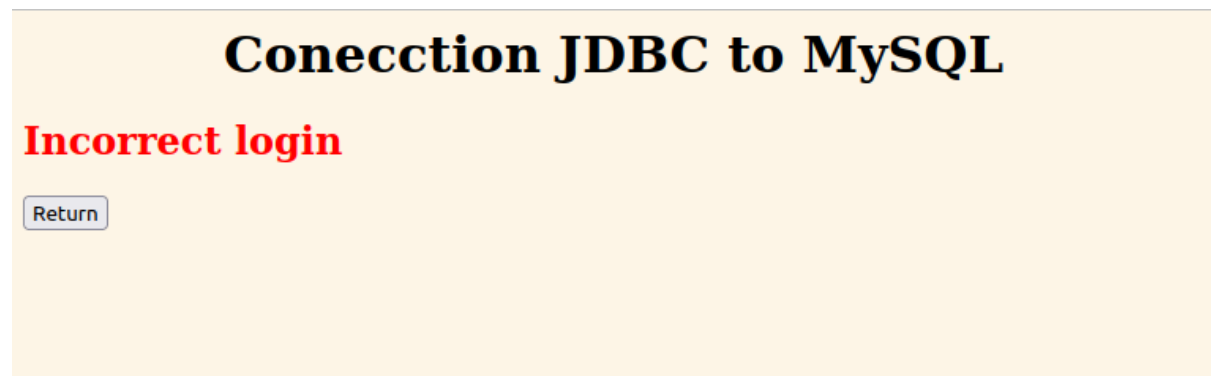
// Comparison
if (email.equals(emailbd.trim()) && contrasena.equals(passwordbd.trim()) ||
email.equals(phonebd.trim()) && contrasena.equals(passwordbd.trim())) {
salida.println("<h1 style='color:green'>Inicio de sesión exitoso</h1>");
salida.println("</TABLE></BODY></HTML>");
miconexion.close();
miconexion.close();
return;
}
}

// If incorrect login
if (!email.equals("")) {
salida.println("<h2 style='color:red'>Inicio de sesión erróneo</h2>");
}
salida.println("</TABLE></BODY></HTML>");
miconexion.close();
} catch (Exception e) {
// Errors
salida.println("<h3 style='color:red'>Error Java: " + e.toString() + "</h3>");
e.printStackTrace(); // Muestra error en la consola del servidor
salida.println("</BODY></HTML>");
} finally {
salida.println("<html>");
salida.println("<body>");
salida.println("<a href='parametros.html'><button>Volver al Inicio</button></a>");
salida.println("</body>");
}

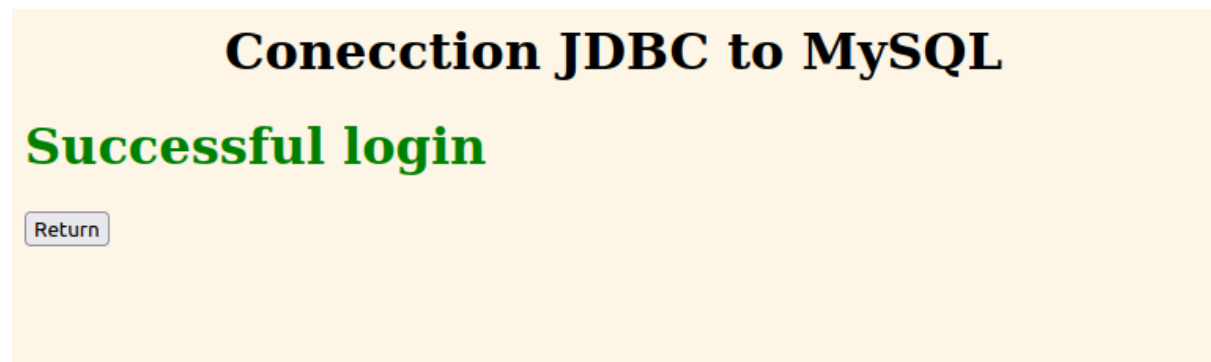
```

```
salida.println("</html>");
salida.println("<form action='servlet' method='post'>");
}
}
}
```

If the login is incorrect the response looks like this:



And, if the login is successful the response looks like this:



Database was created using this sentence:

```
-- Delete old table
DROP TABLE IF EXISTS users;

-- Create table
CREATE TABLE users (
id INT AUTO_INCREMENT PRIMARY KEY,
email VARCHAR(100) NOT NULL,
password VARCHAR(100) NOT NULL,
phone VARCHAR(20)
);

-- Insert a test user
INSERT INTO users (email, password, phone)
VALUES ('usuario@email.com', 'usuario', '666123456');
```