Lucrul cu baze de date – se exemplifica printr-o aplicatie ce inregistreaza utilizatori intr-o baza de date si permite ulterior, logarea in aplicatie pe baza datelor inregistrate:

1. Se creaza un proiect Web dynamic, ce va contine urmatoarele fisiere JSP:

index.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Example</title>
    </head>
    <body>
        <form method="post" action="login.jsp">
            <center>
            <table border="1" width="30%" cellpadding="3">
                <thead>
                    <tr>
                        <th colspan="2">Login Here</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>User Name</td>
                        <td><input type="text" name="uname" value="" /></td>
                    </tr>
                    <tr>
                        <td>Password</td>
                        <td><input type="password" name="pass" value="" /></td>
                    </tr>
                    <tr>
                        <td><input type="submit" value="Login" /></td>
                        <td><input type="reset" value="Reset" /></td>
                    </tr>
                    <tr>
                        <td colspan="2">Yet Not Registered!! <a
href="reg.jsp">Register Here</a></td>
                    </tr>
                </tbody>
            </table>
            </center>
        </form>
    </body>
</html>
```

login.jsp

```jsp
<%@ page import ="java.sql.*" %>
<%
    String userid = request.getParameter("uname");
    String pwd = "";
```

```java
    Class.forName("com.mysql.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/dbname",
        "root", "");
    Statement st = con.createStatement();
    ResultSet rs;
    rs = st.executeQuery("select * from members where uname='" + userid + "'");
    if (rs.next()) {
        session.setAttribute("userid", userid);
        out.println("welcome " + userid);
        out.println("<a href='logout.jsp'>Log out</a>");
        response.sendRedirect("success.jsp");
    } else {
        out.println("Invalid password <a href='index.jsp'>try again</a>");
    }
%>
```

registration.jsp

```java
<%@ page import ="java.sql.*" %>
<%
    String user = request.getParameter("uname");
    String pwd = "";
    String fname = request.getParameter("fname");
    String lname = request.getParameter("lname");
    String email = request.getParameter("email");
    Class.forName("com.mysql.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/dbname",
        "root", "");
    Statement st = con.createStatement();
    //ResultSet rs;
    int i = st.executeUpdate("insert into members(first_name, last_name, email,
uname, pass, regdate) values ('" + fname + "','" + lname + "','" + email + "','" +
user + "','" + pwd + "', CURDATE())");
    if (i > 0) {
        //session.setAttribute("userid", user);
        response.sendRedirect("welcome.jsp");
        // out.print("Registration Successfull!"+"<a href='index.jsp'>Go to
Login</a>");
    } else {
        response.sendRedirect("index.jsp");
    }
    %>
```

reg.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Registration</title>
```

```html
    </head>
    <body>
        <form method="post" action="registration.jsp">
            <center>
            <table border="1" width="30%" cellpadding="5">
                <thead>
                    <tr>
                        <th colspan="2">Enter Information Here</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>First Name</td>
                        <td><input type="text" name="fname" value="" /></td>
                    </tr>
                    <tr>
                        <td>Last Name</td>
                        <td><input type="text" name="lname" value="" /></td>
                    </tr>
                    <tr>
                        <td>Email</td>
                        <td><input type="text" name="email" value="" /></td>
                    </tr>
                    <tr>
                        <td>User Name</td>
                        <td><input type="text" name="uname" value="" /></td>
                    </tr>
                    <tr>
                        <td>Password</td>
                        <td><input type="password" name="pass" value="" /></td>
                    </tr>
                    <tr>
                        <td><input type="submit" value="Submit" /></td>
                        <td><input type="reset" value="Reset" /></td>
                    </tr>
                    <tr>
                        <td colspan="2">Already registered!! <a
href="index.jsp">Login Here</a></td>
                    </tr>
                </tbody>
            </table>
            </center>
        </form>
    </body>
</html>
```

logout.jsp

```jsp
<%
session.setAttribute("userid", null);
session.invalidate();
response.sendRedirect("index.jsp");
%>
```

success.jsp

```jsp
<%
    if ((session.getAttribute("userid") == null) || (session.getAttribute("userid")
== "")) {
%>
You are not logged in<br/>
<a href="index.jsp">Please Login</a>
<%} else {
%>
Welcome <%=session.getAttribute("userid")%>
<a href='logout.jsp'>Log out</a>
<%
    }
    %>
```

welcome.jsp

```jsp
Registration is Successful.
Please Login Here <a href='index.jsp'>Go to Login</a>
```

Desi aplicatia presupune parole pentru utilizatorii inregistrati, eu nu am folosit decat userul root fara parola pentru oricare utilizator inregistrat la accesarea bazei de date. Se pot crea si conturi multiple pe DB.

2. Pentru ca aplicatia sa mearga trebuie intrat pe phpMyAdmin si creată baza de date dbname cu tabelul de membri folosind urmatorul fisier SQL:

```sql
CREATE TABLE `members` (

  `id` int(10) unsigned NOT NULL auto_increment,

  `first_name` varchar(45) NOT NULL,

  `last_name` varchar(45) NOT NULL,

  `email` varchar(45) NOT NULL,

  `uname` varchar(45) NOT NULL,

  `pass` varchar(45) NOT NULL,

  `regdate` date NOT NULL,

  PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```