

Correction d'examen :

Structure du projet (MVC) :

- src/
 - model/
 - Commande.java --> JavaBean
 - controller/
 - CommandeServlet.java --> Servlet (Contrôleur)
- WebContent/
 - form_commande.jsp --> Vue (Formulaire)
 - confirmation.jsp --> Vue (Affichage de confirmation)

1. Model : Commande.java

```
package model;
public class Commande {
    private int id_num;
    private int qte;
    private double prix;

    // Constructeurs
    public Commande() {}

    public Commande(int qte, double prix) {
        this.qte = qte;
        this.prix = prix;
    }

    // Getters et Setters
    public int getId_num() { return id_num; }
    public void setId_num(int id_num) { this.id_num = id_num; }

    public int getQte() { return qte; }
    public void setQte(int qte) { this.qte = qte; }

    public double getPrix() { return prix; }
    public void setPrix(double prix) { this.prix = prix; }
}
```

◇ 2. View : form_commande.jsp

```
<!DOCTYPE html>
<html>
<head><title>Formulaire de Commande</title></head>
<body>
    <h2>Passer une commande</h2>
    <form action="CommandeServlet" method="post">
        Quantité : <input type="number" name="qte" required><br>
        Prix : <input type="text" name="prix" required><br>
        <input type="submit" value="Valider">
    </form>
</body>
</html>
```

■ 3. Controller : CommandeServlet.java

```
package controller;
import model.Commande;
import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
import java.sql.*;
@WebServlet("/CommandeServlet")
public class CommandeServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        int qte = Integer.parseInt(request.getParameter("qte"));
        double prix = Double.parseDouble(request.getParameter("prix"));
        Commande commande = new Commande(qte, prix);
        try {
            // Connexion à la base de données
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/ma_boutique", "root", "");
            // Insertion
            PreparedStatement ps = con.prepareStatement(
                "INSERT INTO commande (qte, prix) VALUES (?, ?)");
            ps.setInt(1, commande.getQte());
            ps.setDouble(2, commande.getPrix());
            ps.executeUpdate();
            // Redirection vers la vue
            request.setAttribute("commande", commande);
            RequestDispatcher rd = request.getRequestDispatcher("confirmation.jsp");
            rd.forward(request, response);
        } catch (Exception e) {
            e.printStackTrace();
            response.getWriter().println("Erreur: " + e.getMessage());
        }
    }
}
```

■ 4. View : confirmation.jsp

```
<%@ page import="model.Commande" %>
<%
Commande commande = (Commande) request.getAttribute("commande");
%>
<!DOCTYPE html>
<html>
<head><title>Confirmation</title></head>
<body>
    <h2>Commande enregistrée avec succès !</h2>
    <p>Quantité : <%= commande.getQte() %></p>
    <p>Prix : <%= commande.getPrix() %></p>
</body>
</html>
Si vous avez tous le crud (update,delete ..)
```

```

// =====
// 2. CONTROLLER : CommandeServlet.java
// =====
package controller;

import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import model.Commande;

public class CommandeServlet extends HttpServlet {
    private static List<Commande> commandes = new ArrayList<>();

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String action = request.getParameter("action");

        if ("ajout".equals(action)) {
            int numero = Integer.parseInt(request.getParameter("numero"));
            String produit = request.getParameter("produit");
            int quantite = Integer.parseInt(request.getParameter("quantite"));
            Commande cmd = new Commande(numero, produit, quantite);
            commandes.add(cmd);
            request.setAttribute("commande", cmd);
            RequestDispatcher dis = request.getRequestDispatcher("confirmation.jsp");
            dis.forward(request, response);
        }
        else if ("supprimer".equals(action)) {
            int numero = Integer.parseInt(request.getParameter("numero"));
            commandes.removeIf(c -> c.getNumero() == numero);
            request.setAttribute("commandes", commandes);
            RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
            dis.forward(request, response);
        }
        else if ("modifier".equals(action)) {
            int numero = Integer.parseInt(request.getParameter("numero"));
            String produit = request.getParameter("produit");
            int quantite = Integer.parseInt(request.getParameter("quantite"));
            for (Commande c : commandes) {
                if (c.getNumero() == numero) {
                    c.setProduit(produit);
                    c.setQuantite(quantite);
                    break;
                }
            }
            request.setAttribute("commandes", commandes);
            RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
            dis.forward(request, response);
        }
    }
}

```

```

protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    request.setAttribute("commandes", commandes);
    RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
    dis.forward(request, response);
}
}

// =====
// 3. VUE : form_commande.jsp
// =====
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Formulaire Commande</title>
</head>
<body>
<center>
<h1>Passer une Commande</h1>
<form action="CommandeServlet" method="post">
<input type="hidden" name="action" value="ajout">
    Numéro de Commande: <input type="text" name="numero"><br><br>
    Nom du Produit: <input type="text" name="produit"><br><br>
    Quantité: <input type="text" name="quantite"><br><br>
    <input type="submit" value="Valider">
</form>
</center>
</body>
</html>

// =====
// 4. VUE : confirmation.jsp
// =====
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="model.Commande" %>
<%
    Commande cmd = (Commande) request.getAttribute("commande");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Confirmation</title>
</head>
<body>
<center>
<h1>Commande Confirmée</h1>
<p>Numéro : <%= cmd.getNumero() %></p>
<p>Produit : <%= cmd.getProduit() %></p>

```

```

<p>Quantité : <%= cmd.getQuantite() %></p>
<a href="CommandeServlet">Voir la liste des commandes</a>
</center>
</body>
</html>

// =====
// 5. VUE : liste.jsp
// =====
<%@ page import="java.util.* , model.Commande" %>
<%
    List<Commande> commandes = (List<Commande>) request.getAttribute("commandes");
%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Liste des Commandes</title>
</head>
<body>
    <center>
        <h1>Liste des Commandes</h1>
        <table border="1">
            <tr>
                <th>Numéro</th>
                <th>Produit</th>
                <th>Quantité</th>
                <th>Actions</th>
            </tr>
            <form action="CommandeServlet" method="post">
<% if (commandes != null) {
    for (Commande c : commandes) { %>
        <tr>
            <td><%= c.getNumero() %></td>
            <td><%= c.getProduit() %></td>
            <td><%= c.getQuantite() %></td>
            <td>
                <form action="CommandeServlet" method="post" style="display:inline;">
                    <input type="hidden" name="action" value="supprimer">
                    <input type="hidden" name="numero" value=<%= c.getNumero() %>>
                    <input type="submit" value="Supprimer">
                </form>
                <form action="modifier_commande.jsp" method="get" style="display:inline;">
                    <input type="hidden" name="numero" value=<%= c.getNumero() %>>
                    <input type="hidden" name="produit" value=<%= c.getProduit() %>>
                    <input type="hidden" name="quantite" value=<%= c.getQuantite() %>>
                    <input type="submit" value="Modifier">
                </form>
            </td>
        </tr>
    <% } } %>
    </table>
    <br><a href="form_commande.jsp">Nouvelle Commande</a>
</center>
</body>

```

```

</html>

// =====
// 6. VUE : modifier_commande.jsp
// =====
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Modifier Commande</title>
</head>
<body>
<center>
<h1>Modifier Commande</h1>
<form action="CommandeServlet" method="post">
<input type="hidden" name="action" value="modifier">
Numéro : <input type="text" name="numero" value="<% request.getParameter("numero") %>" readonly><br><br>
Produit : <input type="text" name="produit" value="<% request.getParameter("produit") %>"><br><br>
Quantité : <input type="text" name="quantite" value="<% request.getParameter("quantite") %>"><br><br>
<input type="submit" value="Modifier">
</form>
</center>
</body>
</html>

```

Projet 1 tableau d'objets

Index.html

```

<!DOCTYPE html>

<html>

<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>

<body>
<center>

<form action="serv1" method="post">

Matricule

<input type="text" name = "m"><br><br>

Nom

```

```
<input type="text" name ="n"><br><br>
Salaire
<input type="text" name ="s"><br><br><br>
<input type="submit" value="Suite" name="choix">
<input type="submit" value="Liste" name="choix">
</form>
</center>
</body>
</html>
```

La classe employe

```
package modele;
public class employe {
    public int mat;
    public String no;
    public float sal;
    public employe(){}
    public employe(int m,String n,float s)
    {
        mat=m;
        no=n;
        sal=s;
    }
}
```

La classe servlet : serv1

```
try (PrintWriter out = response.getWriter()) {
```

```
/* TODO output your page here. You may use following sample code. */

String ch=request.getParameter("choix");

if (ch.equals("Suite"))

{

    int m=Integer.parseInt(request.getParameter("m"));

    String n = request.getParameter("n");

    float s=Float.valueOf(request.getParameter("s"));



modele.employe emp=new modele.employe(m,n,s);

l.add(emp);





ServletContext ct = request.getServletContext();

RequestDispatcher dis=ct.getRequestDispatcher("/index.html");

dis.forward(request, response);

}

else

{



//liste



out.println("<html>");

out.println("<head><title>liste</title></head>");

out.println("<body>");

out.println("<center>");

out.println("<h1>Liste des employes</h1>");


```

```
out.println("<br><br><br>");

out.println("<table border='2'>");

out.println("<tr>");

out.println("<td>");

out.println("Matricule");

out.println("</td>");

out.println("<td>");

out.println("Nom");

out.println("</td>");

out.println("<td>");

out.println("Salaire");

out.println("</td>");

out.println("</tr>");
```

```
Iterator<modele.employe> it = l.iterator();
```

```
while(it.hasNext())
{
    modele.employe val=it.next();

    out.println("<tr>");

    out.println("<td>");

    out.println(""+val.mat);

    out.println("</td>");

    out.println("<td>");

    out.println(""+val.no);

    out.println("</td>");

    out.println("<td>");

    out.println(""+val.sal);
```

```

        out.println("</td>");
        out.println("</tr>");
    }

    out.println("</table>");
    out.println("</center>");
    out.println("</body>");
    out.println("</html>");

} }

```

Projet base de données

Index.html

```

<!DOCTYPE html>

<!--

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

    <head>
        <title>TODO supply a title</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
    </head>
    <body>
        <center>
            <form action="serv1" method="post">

```

```

Matricule
<input type="text" name ="m"><br><br>

Nom
<input type="text" name ="n"><br><br>

Salaire
<input type="text" name ="s"><br><br><br>
    <input type="submit" value="Insertion">
</form>

</center>
</body>

</html>

```

La classe servlet serv1

```

try (PrintWriter out = response.getWriter()) {
    /* TODO output your page here. You may use following sample code. */
    int m= Integer.parseInt(request.getParameter("m"));
    String n= request.getParameter("n");
    float s=Float.valueOf(request.getParameter("s"));

    //les etapes de connexion jdbc

    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=null;
        con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","marah");
    }
}

```

```
Statement s1 = con.createStatement();

String req="insert into employe values("+m+","+n+","+s+ ")";
int res = s1.executeUpdate(req);

ServletContext ct = request.getServletContext();
RequestDispatcher dis=ct.getRequestDispatcher("/index.html");

dis.forward(request, response);

}

catch(ClassNotFoundException e)
{
    out.println("err : pilote");
}

catch(SQLException ff)
{
    out.println("err : requete ou connexion");
}
```

<input type="button" value="Ajout"/>
<input type="button" value="Liste"/>

Matricule	<input type="text" value="1"/>
Nom	<input type="text" value="toto"/>
Salaire	<input type="text" value="20000"/>
	<input type="button" value="Ajout"/>

Liste des employes

Matricule	Nom	Salaire
1	toto	20000

mat	no	sal
1	toto	20000

serv0.java — Page d'accueil

```
// serv0.java
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<meta charset='UTF-8'>");
out.println("<title>Servlet serv0</title>");
out.println("</head>");
out.println("<body>");
out.println("<center>");
out.println("<h2>Menu principal</h2>");
out.println("<form action='recuperation' method='post'>");
out.println("<br><br>");
out.println("<input type='submit' value='Ajout' name='choix'><br><br>");
out.println("<input type='submit' value='Liste' name='choix'>");
out.println("</form>");
out.println("</center>");
out.println("</body>");
out.println("</html>");
```

recuperation.java — Traitement du choix

```
java
CopierModifier
// recuperation.java
String ch = request.getParameter("choix");

if (ch.equals("Ajout")) {
    // Formulaire d'ajout
    out.println("<html>");
    out.println("<head><meta charset='UTF-8'><title>Ajout</title></head>");
    out.println("<body>");
```

```

        out.println("<center>");
        out.println("<h2>Formulaire d'ajout d'un employé</h2>");
        out.println("<form action='ajout' method='post'>");
        out.println("Matricule: <input type='text' name='m'><br><br>");
        out.println("Nom: <input type='text' name='n'><br><br>");
        out.println("Salaire: <input type='text' name='s'><br><br>");
        out.println("<input type='submit' value='Insertion'><br><br>");
        out.println("</form>");
        out.println("</center>");
        out.println("</body>");
        out.println("</html>");

    } else {
        // Affichage de la liste des employés
        out.println("<html>");
        out.println("<head><meta charset='UTF-8'><title>Liste</title></head>");
        out.println("<body>");
        out.println("<center>");
        out.println("<h1>Liste des employés</h1>");
        out.println("<table border='2'>");
        out.println("<tr><th>Matricule</th><th>Nom</th><th>Salaire</th></tr>");

        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/gescli", "root", "");
            Statement s = con.createStatement();
            ResultSet res = s.executeQuery("SELECT * FROM employe");

            while (res.next()) {
                out.println("<tr>");
                out.println("<td>" + res.getInt("mat") + "</td>");
                out.println("<td>" + res.getString("no") + "</td>");
                out.println("<td>" + res.getFloat("sal") + "</td>");
                out.println("</tr>");
            }

            out.println("</table>");
            out.println("</center>");
            out.println("</body>");
            out.println("</html>");

        } catch (ClassNotFoundException e) {
            out.println("Erreur pilote JDBC.");
        } catch (SQLException e) {
            out.println("Erreur lors de l'exécution de la requête.");
        }
    }
}

```

ajout.java — Insertion dans la base de données

```

// ajout.java
int m = Integer.parseInt(request.getParameter("m"));
String n = request.getParameter("n");
float s = Float.parseFloat(request.getParameter("s"));
try {
    Class.forName("com.mysql.jdbc.Driver");

```

```

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/gescli", "root", "");

Statement s1 = con.createStatement();
Statement s2 = con.createStatement();

// Vérification de l'existence du matricule
String checkQuery = "SELECT * FROM employe WHERE mat = " + m;
ResultSet re = s2.executeQuery(checkQuery);

boolean existe = false;
if (re.next()) {
    existe = true;
}

if (existe) {
    out.println("L'employé existe déjà !");
} else {
    // Insertion dans la base
    String insertQuery = "INSERT INTO employe VALUES (" + m + ", '" + n + "', " + s + ")";
    s1.executeUpdate(insertQuery);

    // Redirection vers serv0
    ServletContext ct = request.getServletContext();
    RequestDispatcher dis = ct.getRequestDispatcher("/serv0");
    dis.forward(request, response);
}

} catch (ClassNotFoundException e) {
    out.println("Erreur pilote JDBC.");
} catch (SQLException e) {
    out.println("Erreur de connexion ou d'exécution SQL.");
}

```

TP Java : Architecture MVC

Modèle: employe.java

```

// modele/employe.java
package modele;

public class employe {
    private int mat;
    private String no;
    private float sal;

    public employe() {
        // Constructeur vide
    }

    public employe(int m, String n, float s) {
        mat = m;

```

```

        no = n;
        sal = s;
    }

    public int getMat() {
        return mat;
    }

    public void setMat(int mat) {
        this.mat = mat;
    }

    public String getNo() {
        return no;
    }

    public void setNo(String no) {
        this.no = no;
    }

    public float getSal() {
        return sal;
    }

    public void setSal(float sal) {
        this.sal = sal;
    }
}

```

⌚ Vue : serv1.java (formulaire HTML)

```

// serv1.java
out.println("<body>");
out.println("<center>");
out.println("<form action='recuperation' method='post'>");

out.println("<h1>Application MVC</h1><br><br>");
out.println("Matricule: <input type='text' name='m'><br><br>");
out.println("Nom: <input type='text' name='n'><br><br>");
out.println("Salaire: <input type='text' name='s'><br><br><br>");

out.println("<input type='submit' value='Insertion'>");

out.println("</form>");
out.println("</center>");
out.println("</body>");

```

🖱 Contrôleur : recuperation.java

```

// recuperation.java
int m = Integer.parseInt(request.getParameter("m"));

```

```

String n = request.getParameter("n");
float s = Float.valueOf(request.getParameter("s"));

// Création d'un objet employé
modele.employe emp = new modele.employe();
emp.setMat(m);
emp.setNo(n);
emp.setSal(s);

// Appel de la logique métier (insertion)
controleur.insertion.ajout(emp);

// Redirection vers la vue
ServletContext ct = request.getServletContext();
RequestDispatcher dis = ct.getRequestDispatcher("/serv1");
dis.forward(request, response);

```

❖ Contrôleur:insertion.java

```

// controleur/insertion.java
package controleur;

import java.sql.*;

public class insertion {

    public static void ajout(modele.employe ob) {
        connexion.connexion.getConnection();

        try {
            PreparedStatement s = connexion.connexion.con.prepareStatement("INSERT INTO employe VALUES (?, ?, ?)");
            s.setInt(1, ob.getMat());
            s.setString(2, ob.getNo());
            s.setFloat(3, ob.getSal());

            // Changement : executeUpdate au lieu de executeQuery
            s.executeUpdate();
        } catch (SQLException nn) {
            System.out.println("Erreur d'insertion : requête ou connexion");
        }
    }
}

```

⌚ Connexion à la base de données : connexion.java

```

// connexion/connexion.java
package connexion;

```

```

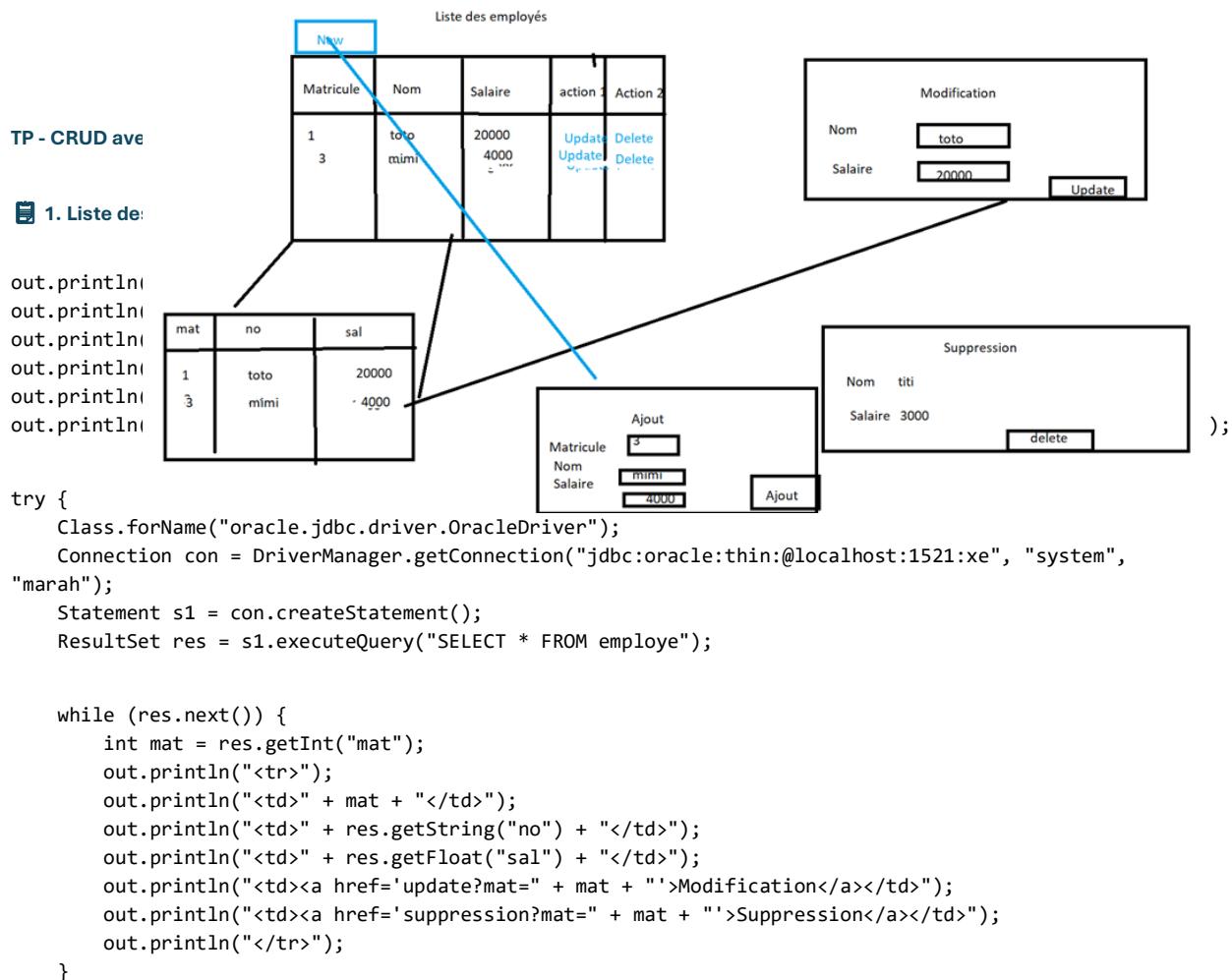
import java.sql.*;

public class connexion {
    public static Connection con;

    public static Connection getConnection() {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system", "marah");
        } catch (ClassNotFoundException ee) {
            System.out.println("Erreur : pilote JDBC non trouvé");
        } catch (SQLException nn) {
            System.out.println("Erreur connexion : problème de requête ou de base");
        }
        return con;
    }

    public static void main(String[] args) {
        getConnection();
        System.out.println("Connexion réussie !");
    }
}

```



```

} catch (Exception e) {
    out.println("Erreur lors de la récupération des données : " + e.getMessage());
}

out.println("</table>");
out.println("<br><input type='submit' value='New'></form>");
out.println("</center></body></html>");
```

2. Ajout d'un employé – Ajout.java + insertion.java

Ajout.java (formulaire d'insertion)

```

out.println("<!DOCTYPE html>");
out.println("<html><head><title>Ajout</title></head><body>");
out.println("<center><h1>Ajout d'un employé</h1>");
out.println("<form action='insertion' method='post'>");
out.println("Matricule: <input type='text' name='mat'><br><br>");
out.println("Nom: <input type='text' name='no'><br><br>");
out.println("Salaire: <input type='text' name='sal'><br><br>");
out.println("<input type='submit' value='Insert'></form></center></body></html>");
```

insertion.java (traitement)

```

int mat = Integer.parseInt(request.getParameter("mat"));
String no = request.getParameter("no");
float sal = Float.parseFloat(request.getParameter("sal"));

try {
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"marah");
    Statement s1 = con.createStatement();
    String req = "INSERT INTO employe VALUES (" + mat + ", '" + no + "', " + sal + ")";
    s1.executeUpdate(req);

    RequestDispatcher dis = request.getRequestDispatcher("/serv1");
    dis.forward(request, response);
}

} catch (Exception e) {
    out.println("Erreur d'insertion : " + e.getMessage());
}
```

3. Modification d'un employé – update.java + modif.java

update.java (affichage du formulaire pré-rempli)

```

int mat = Integer.parseInt(request.getParameter("mat"));
out.println("<!DOCTYPE html><html><head><title>Modification</title></head><body>");
out.println("<center><h1>Modifier Employé</h1><form action='modif' method='post'>");
```

```

try {
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"marah");
    Statement s = con.createStatement();
    ResultSet res = s.executeQuery("SELECT * FROM employe WHERE mat=" + mat);

    if (res.next()) {
        out.println("<input type='hidden' name='mat' value='" + mat + "'>");
        out.println("Nom: <input type='text' name='no' value='" + res.getString("no") + "'><br><br>");
        out.println("Salaire: <input type='text' name='sal' value='" + res.getFloat("sal") + "'><br><br>");
        out.println("<input type='submit' value='Update'></form></center></body></html>");
    }

} catch (Exception e) {
    out.println("Erreur lors du chargement des données : " + e.getMessage());
}

```

❖ **modif.java (mise à jour BDD)**

```

int mat = Integer.parseInt(request.getParameter("mat"));
String no = request.getParameter("no");
float sal = Float.parseFloat(request.getParameter("sal"));

try {
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"marah");
    Statement s = con.createStatement();
    String req = "UPDATE employe SET no='" + no + "', sal=" + sal + " WHERE mat=" + mat;
    s.executeUpdate(req);

    RequestDispatcher dis = request.getRequestDispatcher("/serv1");
    dis.forward(request, response);

} catch (Exception e) {
    out.println("Erreur de mise à jour : " + e.getMessage());
}

```

 **4. Suppression d'un employé – suppression.java + supp.java**

❖ **suppression.java (confirmation)**

```

int mat = Integer.parseInt(request.getParameter("mat"));
out.println("<!DOCTYPE html><html><head><title>Suppression</title></head><body>");
out.println("<center><h1>Supprimer Employé</h1><form action='supp' method='post'>");
out.println("<input type='hidden' name='mat' value='" + mat + "'>");

try {
    Class.forName("oracle.jdbc.driver.OracleDriver");

```

```

Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"marah");
Statement s = con.createStatement();
ResultSet res = s.executeQuery("SELECT * FROM employe WHERE mat=" + mat);

if (res.next()) {
    out.println("Nom: " + res.getString("no") + "<br><br>");
    out.println("Salaire: " + res.getFloat("sal") + "<br><br>");
    out.println("<input type='submit' value='Delete'></form></center></body></html>");
}

} catch (Exception e) {
    out.println("Erreur lors de la récupération : " + e.getMessage());
}

```

❖ **supp.java (traitement suppression)**

```

int mat = Integer.parseInt(request.getParameter("mat"));

try {
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"marah");
    Statement s = con.createStatement();
    String req = "DELETE FROM employe WHERE mat=" + mat;
    s.executeUpdate(req);

    RequestDispatcher dis = request.getRequestDispatcher("/serv1");
    dis.forward(request, response);

} catch (Exception e) {
    out.println("Erreur de suppression : " + e.getMessage());
}

```

JSP avec tableau d'objets : jsptab.jsp

```

<%@page import="java.util.*"%>

<%! int c; String ch, n; float d, cc; ArrayList l = new ArrayList(); %>

<%
ch = request.getParameter("choix");

if (ch.equals("liste")) {
    Iterator<modele.client> it = l.iterator();

%>
```

```

<html>
<head><title>Liste</title></head>
<body>
    <center>
        <h1>Liste des clients</h1>
        <table border='2'>
            <tr><th>Code</th><th>Name</th><th>Debit</th><th>Credit</th></tr>
            <% while(it.hasNext()) {
                modele.client val = it.next(); %>
                <tr>
                    <td><%= val.code %></td>
                    <td><%= val.no %></td>
                    <td><%= val.db %></td>
                    <td><%= val.cr %></td>
                </tr>
            <% } %>
        </table>
    </center>
</body>
</html>

<%
} else {
    // insertion
    c = Integer.parseInt(request.getParameter("c"));
    n = request.getParameter("n");
    d = Float.parseFloat(request.getParameter("d"));
    cc = Float.parseFloat(request.getParameter("cc"));

    modele.client cli = new modele.client(c, n, d, cc);
    l.add(cli);

    ServletContext ct = request.getServletContext();
    RequestDispatcher dis = ct.getRequestDispatcher("/saisie.jsp");
    dis.forward(request, response);
}

```

```
}

%>
```

■ 1. Modèle (JavaBean) : client.java

```
package modele;

public class client {
    public int code;
    public String no;
    public float db;
    public float cr;

    public client() {}

    public client(int c, String n, float d, float cc) {
        code = c;
        no = n;
        db = d;
        cr = cc;
    }
}
```

saisie.jsp

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Saisie</title>
</head>
<body>
    <form action="jsptab.jsp" method="post">
        <center>
            Code : <input type="text" name="c"><br><br>
            Name : <input type="text" name="n"><br><br>
            Debit : <input type="text" name="d"><br><br>
            Credit : <input type="text" name="cc"><br><br>

            <input type="submit" name="choix" value="insert tableau">
            <input type="submit" name="choix" value="liste">
            <input type="submit" name="choix" value="basculage">
        </center>
    </form>
</body>
</html>
```

4. JSP vers JSP : jsp0.jsp → jsp1.jsp

◊ jsp0.jsp (formulaire)

```
<form action="jsp1.jsp" method="post">
<center>
    <h1>Saisie</h1>
    Valeur1: <input type="text" name="v1"><br><br>
    Valeur2: <input type="text" name="v2"><br><br>

    <input type="submit" name="choix" value="Somme">
    <input type="submit" name="choix" value="Soustraction">
    <input type="submit" name="choix" value="Multiplication">
    <input type="submit" name="choix" value="Division">
</center>
</form>
```

◊ jsp1.jsp (traitement)

```
<%! float val1, val2, cal; String ch; %>
<%
    val1 = Float.parseFloat(request.getParameter("v1"));
    val2 = Float.parseFloat(request.getParameter("v2"));
    ch = request.getParameter("choix");

    if (ch.equals("Somme")) {
        cal = val1 + val2;
        out.println("La somme est : " + cal);
    } else if (ch.equals("Soustraction")) {
        cal = val1 - val2;
        out.println("La soustraction est : " + cal);
    } else if (ch.equals("Multiplication")) {
        cal = val1 * val2;
        out.println("La multiplication est : " + cal);
    } else {
        cal = val1 / val2;
        out.println("La division est : " + cal);
    }
%>
```

5. JSP vers Servlet : jsp0.jsp → servjsp.java

◊ jsp0.jsp (formulaire vers servlet)

```
<form action="servjsp" method="post">
<center>
    Valeur1: <input type="text" name="v1"><br><br>
    Valeur2: <input type="text" name="v2"><br><br>

    <input type="submit" name="choix" value="Somme">
    <input type="submit" name="choix" value="Soustraction">
    <input type="submit" name="choix" value="Multiplication">
    <input type="submit" name="choix" value="Division">
```

```
</center>
</form>
```

◊ servjsp.java (traitement)

```
@WebServlet(urlPatterns = {"/*servjsp"})
public class servjsp extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            float val1 = Float.parseFloat(request.getParameter("v1"));
            float val2 = Float.parseFloat(request.getParameter("v2"));
            float cal = 0;
            String ch = request.getParameter("choix");

            if (ch.equals("Somme")) cal = val1 + val2;
            else if (ch.equals("Soustraction")) cal = val1 - val2;
            else if (ch.equals("Multiplication")) cal = val1 * val2;
            else if (ch.equals("Division")) cal = val1 / val2;

            out.println("Résultat = " + cal);
        }
    }

    protected void doPost(HttpServletRequest req, HttpServletResponse res) throws ServletException,
    IOException {
        processRequest(req, res);
    }

    protected void doGet(HttpServletRequest req, HttpServletResponse res) throws ServletException,
    IOException {
        processRequest(req, res);
    }
}
```

■ 6. Servlet vers JSP : servletjsp.java → jspserv.jsp

◊ servletjsp.java

```
@WebServlet(urlPatterns = {"/*servletjsp"})
public class servletjsp extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            out.println("<form action='jspserv.jsp' method='post'>");
            out.println("<center>");
            out.println("Valeur 1: <input type='text' name='v1'><br><br>");

```

```

        out.println("Valeur 2: <input type='text' name='v2'><br><br>");
        out.println("<input type='submit' value='Somme' name='choix'>");
        out.println("<input type='submit' value='Soustraction' name='choix'>");
        out.println("<input type='submit' value='Multiplication' name='choix'>");
        out.println("<input type='submit' value='Division' name='choix'>");
        out.println("</center></form>");
    }
}

protected void doPost(HttpServletRequest req, HttpServletResponse res) throws ServletException,
IOException {
    processRequest(req, res);
}

protected void doGet(HttpServletRequest req, HttpServletResponse res) throws ServletException,
IOException {
    processRequest(req, res);
}
}

```

◊ **jpserv.jsp (traitement)**

```

<%! float val1, val2, cal; String ch; %>
<%
    val1 = Float.parseFloat(request.getParameter("v1"));
    val2 = Float.parseFloat(request.getParameter("v2"));
    ch = request.getParameter("choix");

    if (ch.equals("Somme")) cal = val1 + val2;
    else if (ch.equals("Soustraction")) cal = val1 - val2;
    else if (ch.equals("Multiplication")) cal = val1 * val2;
    else if (ch.equals("Division")) cal = val1 / val2;

    out.println("Résultat = " + cal);
%>

```

JSP CRUD :

1. ajout.jsp – Formulaire d'ajout

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Ajout Client</title>
</head>
<body>
    <form action="insertion.jsp" method="post">
        <center>
            <h1>Ajouter un Client</h1>
            Code : <input type="text" name="cd"><br><br>
            Name : <input type="text" name="n"><br><br>
            Debit : <input type="text" name="d"><br><br>

```

```

        Credit : <input type="text" name="cc"><br><br>
        <input type="submit" name="choix" value="Ajout"><br><br>
    </center>
</form>
</body>
</html>

```

2. insertion.jsp – Traitement d'ajout

```

<%@page import="java.sql.*" %>
<%
    int c = Integer.parseInt(request.getParameter("cd"));
    String n = request.getParameter("n");
    float d = Float.parseFloat(request.getParameter("d"));
    float cc = Float.parseFloat(request.getParameter("cc"));

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection co =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb", "root", "Guzelmayder123");

        String req = "INSERT INTO client (Code, no, db, cr) VALUES (?, ?, ?, ?)";
        PreparedStatement ps = co.prepareStatement(req);
        ps.setInt(1, c);
        ps.setString(2, n);
        ps.setFloat(3, d);
        ps.setFloat(4, cc);
        ps.executeUpdate();

        RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
        dis.forward(request, response);

    } catch (Exception e) {
        out.println("Erreur : " + e.getMessage());
    }
%>

```

3. liste.jsp – Affichage des données

```
<%@page import="java.sql.*" %>
<html>
<head><title>Liste des Clients</title></head>
<body>
<center>
    <form action="ajout.jsp" method="post">
        <h1>Liste des clients</h1>
        <table border="2">
            <tr>
                <th>Code</th><th>Nom</th><th>Débit</th><th>Crédit</th><th>Modifier</th><th>Supprimer</th>
            </tr>
        </table>
        <br><input type="submit" value="Ajouter un client" />
    </form>
</center>
</body>
</html>
```

4. delete.jsp – Formulaire de suppression

```
<%@page import="java.sql.*" %>
<html>
<head><title>Suppression</title></head>
<body>
<center>
    <h1>Suppression d'un Client</h1>
```

```

<%
int code = Integer.parseInt(request.getParameter("code"));
try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection co =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb","root","Guzelmayder123");

    Statement s1 = co.createStatement();
    ResultSet res = s1.executeQuery("SELECT * FROM client WHERE code=" + code);

    if (res.next()) {
%>
<form action="supp.jsp" method="post">
    <input type="hidden" name="code" value="<%=res.getInt("Code")%>">
    Nom : <%=res.getString("no")%><br><br>
    Débit : <%=res.getFloat("db")%><br><br>
    Crédit : <%=res.getFloat("cr")%><br><br>
    <input type="submit" value="Confirmer la suppression">
</form>
<%
}
} catch (Exception e) {
    out.println("Erreur : " + e.getMessage());
}
%>
</center>
</body>
</html>

```

✖ 5. supp.jsp – Traitement de suppression

```

<%@page import="java.sql.*" %>
<%
int code = Integer.parseInt(request.getParameter("code"));

try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection co =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb","root","Guzelmayder123");

    Statement s = co.createStatement();
    s.executeUpdate("DELETE FROM client WHERE Code=" + code);

    RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
    dis.forward(request, response);

} catch (Exception e) {
    out.println("Erreur : " + e.getMessage());
}
%>

```

6. update.jsp – Formulaire de modification

```
<%@page import="java.sql.*" %>
<html>
<head><title>Modification</title></head>
<body>
<center>
    <h1>Modification Client</h1>
<%
    int code = Integer.parseInt(request.getParameter("code"));
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection co =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb","root","Guzelmayder123");

        Statement s1 = co.createStatement();
        ResultSet res = s1.executeQuery("SELECT * FROM client WHERE code=" + code);

        if (res.next()) {
%>
<form action="modif.jsp" method="post">
    <input type="hidden" name="code" value="<%=res.getInt("Code")%>">
    Name : <input type="text" name="no" value="<%=res.getString("no")%>"><br><br>
    Debit : <input type="text" name="db" value="<%=res.getFloat("db")%>"><br><br>
    Credit : <input type="text" name="cr" value="<%=res.getFloat("cr")%>"><br><br>
    <input type="submit" value="Modifier">
</form>
<%
    }
} catch (Exception e) {
    out.println("Erreur : " + e.getMessage());
}
%>
</center>
</body>
</html>
```

7. modif.jsp – Traitement de mise à jour

```
<%@page import="java.sql.*" %>
<%
    int code = Integer.parseInt(request.getParameter("code"));
    String no = request.getParameter("no");
    float db = Float.parseFloat(request.getParameter("db"));
    float cr = Float.parseFloat(request.getParameter("cr"));

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection co =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb","root","Guzelmayder123");

        String req = "UPDATE client SET no=?, db=?, cr=? WHERE Code=?";
        PreparedStatement s = co.prepareStatement(req);
        s.setString(1, no);
        s.setFloat(2, db);
        s.setFloat(3, cr);
    }
%>
```

```

        s.setInt(4, code);
        s.executeUpdate();

        RequestDispatcher dis = request.getRequestDispatcher("liste.jsp");
        dis.forward(request, response);

    } catch (Exception e) {
        out.println("Erreur : " + e.getMessage());
    }
%>

```

JAVA BEAN :

INDEX.HTML :

```

<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->

```

```

<html>
    <head>
        <title>TODO supply a title</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
    </head>
    <body>
        <form action="traitement.jsp" method="post">
            <center>
                Code
                <input type="text" name="code"><br><br>

                Name
                <input type="text" name="no"><br><br>

                Debit
                <input type="text" name="db"><br><br>

                Credit
                <input type="text" name="cr"><br><br>

                <input type="submit" value="Insertion"><br><br>
            </center>
        </form>
    </body>
</html>

```

TRAITEMENT.JSP :

```

<%@page import="java.sql.*" %>
<jsp:useBean id="cli" class="modele.client" scope="application"/>
<!--cli = objet-->
<jsp:setProperty name="cli" property="code" />

<jsp:setProperty name="cli" property="no" />

```

```

<jsp:setProperty name="cli" property="db" />

<jsp:setProperty name="cli" property="cr" />

<%
//out.println("le code est :" +cli.getCode());
//out.println("le nom est :" +cli.getNo());
//out.println("le debit est :" +cli.getDb());
//out.println("le credit est :" +cli.getCr());

//


try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection co = null ;
    co = DriverManager.getConnection("jdbc:mysql://localhost:3306/javadb","root","Guzelmayder123");
    out.println("Connexion réussie ! ");

    Statement s1 = co.createStatement();
    // declaration de la requete

    String req = "INSERT INTO client (Code, no, db, cr) VALUES (" + cli.getCode() + ", '" + cli.getNo() +
    "', " + cli.getDb() + ", " + cli.getCr() + ")";
    int res = s1.executeUpdate(req);
    ServletContext ct = request.getServletContext();
    RequestDispatcher dis = ct.getRequestDispatcher("/index.html");
    dis.forward(request, response);

}catch(ClassNotFoundException e){
    out.println("Err : Pilote !");
}
catch(SQLException jj){
    out.println("Err : connexion ou !");
}

%>
Client.class :

public class client { private int code ; private String no ; private float db ; private float cr ; public
client(){

}

public int getCode() {
    return code;
}

public void setCode(int code) {
    this.code = code;
}

```

```
public String getNo() {
    return no;
}

public void setNo(String no) {
    this.no = no;
}

public float getDb() {
    return db;
}

public void setDb(float db) {
    this.db = db;
}

public float getCr() {
    return cr;
}

public void setCr(float cr) {
    this.cr = cr;
}
```