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Membuat db

Create database ?

barang_db

utf8mb4_general_ci

Create

```
1 CREATE table barang(  
2     id int AUTO_INCREMENT PRIMARY KEY,  
3     nama varchar(250),  
4     berat int,  
5     jenis varchar(150)|  
6 )
```

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 nama	varchar(250)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	3 berat	int(11)			Yes	NULL			Change Drop More
<input type="checkbox"/>	4 jenis	varchar(150)	utf8mb4_general_ci		Yes	NULL			Change Drop More

```

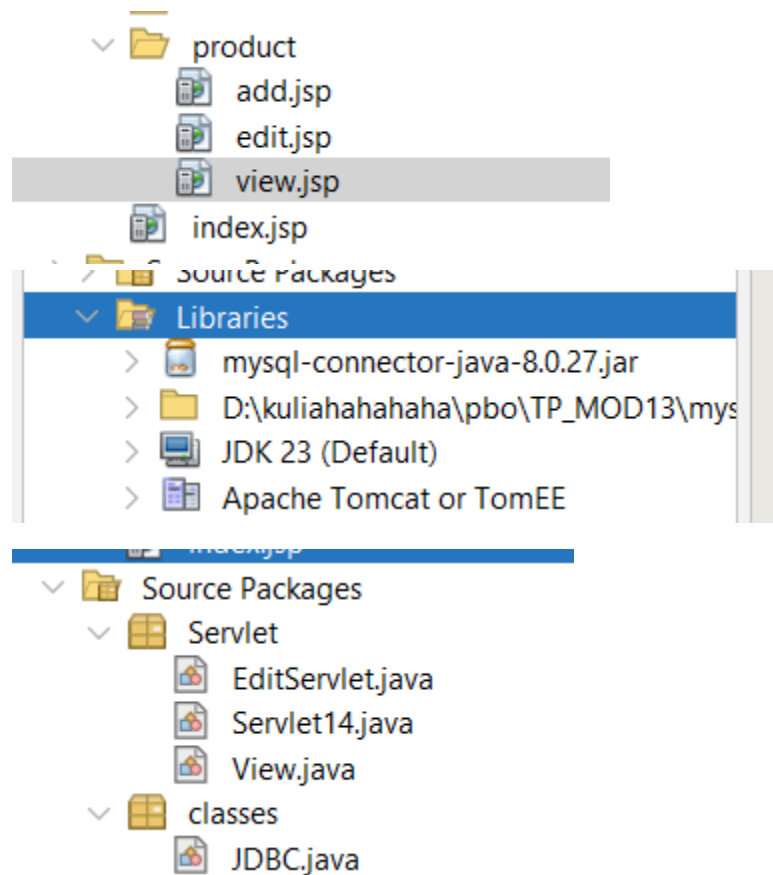
1 INSERT INTO barang(nama, berat, jenis) VALUES
2 ('beras', 10, 'sembako'),
3 ('minyak', 2, 'sembako'),
4 ('baju', 1, 'pakaian')
5

```

				id	nama	berat	jenis
<input type="checkbox"/>		Edit		Copy		Delete	1 beras 10 sembako
<input type="checkbox"/>		Edit		Copy		Delete	2 minyak 2 sembako
<input type="checkbox"/>		Edit		Copy		Delete	3 baju 1 pakaian

Bilin projectnya pake yang versi 6

Bikin file + nambah libraries



Servlet

Servlet14(buat add)

```
*/
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    String nama = request.getParameter("nama");
    int berat = Integer.parseInt(request.getParameter("berat"));
    String jenis = request.getParameter("jenis");

    JDBC db = new JDBC();
    db.connect();
    String conmsg = db.getMessage();
    System.out.println("connection message " + conmsg);

    String query = "insert into barang (nama, berat, jenis) values ('" + nama + "', " + berat + ", '" + jenis + "')";
    db.runQuery(query);
    String msg = db.getMessage();
    System.out.println("query message " + msg);

    request.setAttribute("nama", nama);
    request.setAttribute("berat", berat);
    request.setAttribute("jenis", jenis);
    request.setAttribute("connectionMessage", conmsg);
    request.setAttribute("queryMessage", msg);
    request.getRequestDispatcher("index.jsp").forward(request, response);
}
```

View

```
@WebServlet(name = "View", urlPatterns = {"/View"})
public class View extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        JDBC db = new JDBC();
        ArrayList<HashMap<String, String>> barangList = new ArrayList<>();
        try {
            ResultSet rs = db.getAllBarang();
            while (rs != null && rs.next()) {
                HashMap<String, String> barang = new HashMap<>();
                barang.put("nama", rs.getString("nama"));
                barang.put("berat", rs.getString("berat"));
                barang.put("jenis", rs.getString("jenis"));
                barangList.add(barang);
            }
            if (rs != null) rs.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
        request.setAttribute("barangList", barangList);
        request.getRequestDispatcher("/product/view.jsp").forward(request, response);
    }
}
```

HttpServlet methods. Click on the + sign on the left to edit the code.

edit

```
@WebServlet(name = "EditServlet", urlPatterns = {"/EditServlet"})
public class EditServlet extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet EditServlet</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>Servlet EditServlet at " + request.getContextPath() + "</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        JDBC db = new JDBC();
        ArrayList<HashMap<String, String>> barangList = new ArrayList<>();
        try {
            ResultSet rs = db.getAllBarang();
            while (rs != null && rs.next()) {
                HashMap<String, String> barang = new HashMap<>();
                barang.put("nama", rs.getString("nama"));
                barang.put("berat", rs.getString("berat"));
                barang.put("jenis", rs.getString("jenis"));
                barangList.add(barang);
            }
            if (rs != null) rs.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
        request.setAttribute("barangList", barangList);
    }
}
```

```

String selectedNama = request.getParameter("nama");
HashMap<String, String> barangTerpilih = null;
if (selectedNama != null && !selectedNama.isEmpty()){
    try {
        ResultSet rs = db.getBarangByNama(selectedNama);
        if (rs != null && rs.next()) {
            barangTerpilih = new HashMap<>();
            barangTerpilih.put("nama", rs.getString("nama"));
            barangTerpilih.put("berat", rs.getString("berat"));
            barangTerpilih.put("jenis", rs.getString("jenis"));
        }
        if (rs != null) rs.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
request.setAttribute("barangTerpilih", barangTerpilih);
request.getRequestDispatcher("/product/edit.jsp").forward(request, response);

*/
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    String oldNama = request.getParameter("old_nama");
    String nama = request.getParameter("nama");
    String berat = request.getParameter("berat");
    String jenis = request.getParameter("jenis");
    JDBC db = new JDBC();
    db.updateBarang(oldNama, nama, berat, jenis);
    response.sendRedirect("EditServlet");
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
}

```

JSP

Add.jsp

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Add</title>
  </head>
  <body>
    <form method="get" action = "Servlet14">
      nama : <input type="text" name = "nama"/><br>
      berat : <input type="number" name = "berat"/><br>
      jenis :
      <select name="jenis">
        <option value="sembako">Sembako</option>
        <option value="pakaian">Pakaian</option>
        <option value="lainnya">Lainnya</option>
      </select><br>
      <input type="submit" value="Kirim"/>
    </form>
    <%
      // Mendapatkan parameter dari request
      String nama = request.getParameter("nama");
      String berat = request.getParameter("berat");
      String jenis = request.getParameter("jenis");

      // Menampilkan output jika parameter tidak null
      if (nama != null && berat != null && jenis != null) {
    %>
        <h3>Output:</h3>
        <p>Nama: <%= nama %></p>
        <p>Berat: <%= berat %></p>
        <p>Jenis: <%= jenis %></p>
    <%
      }
      String connectionMessage = (String) request.getAttribute("connectionMessage");
      String queryMessage = (String) request.getAttribute("queryMessage");
      if (connectionMessage != null) {
    %>
        <h3>Database Connection:</h3>
        <p><%= connectionMessage %></p>
    <%
      }
      if (queryMessage != null) {
    %>
        <h3>Query Result:</h3>
        <p><%= queryMessage %></p>
    <%
      }
    %>

    <a href="../index.jsp">Kembali ke halaman utama</a>
  </body>

```

View.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>View</title>
  </head>
  <body>
    <h2>Daftar Barang</h2>
    <table border="1">
      <tr>
        <th>Nama</th>
        <th>Berat</th>
        <th>Jenis</th>
      </tr>
      <%
        java.util.ArrayList barangList = (java.util.ArrayList) request.getAttribute("barangList");
        if (barangList != null) {
          for (Object obj : barangList) {
            java.util.HashMap barang = (java.util.HashMap) obj;
            <tr>
              <td><%= barang.get("nama") %></td>
              <td><%= barang.get("berat") %></td>
              <td><%= barang.get("jenis") %></td>
            </tr>
          }
        }
      <%>
    </table>
    <a href="index.jsp">Kembali ke halaman utama</a>
    <a href="product/add.jsp">Tambah Barang</a>
    <a href="EditServlet">Edit data</a>
  </body>
```

Edit.jsp


```

<%@page import="java.util.ArrayList" %>
<%@page import="java.util.HashMap" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Edit</title>
</head>
<body>
<h2>Edit Data Barang</h2>

<%
    ArrayList<HashMap<String, String>> barangList = (ArrayList<HashMap<String, String>>) request.getAttribute("barangList");
    HashMap<String, String> barangTerpilih = (HashMap<String, String>) request.getAttribute("barangTerpilih");
    String selectedNama = request.getParameter("nama");
%>

<form method="get" action="EditServlet">
<label>Pilih Barang yang ingin diubah:</label>
<select name="nama">
<option value=""-- Pilih --</option>

<%
    if (barangList != null) {
        for (HashMap<String, String> barang : barangList) {
            String nama = barang.get("nama");

<option value="<%= nama %%" <%= (nama.equals(selectedNama) ? "selected" : "") %"><%= nama %"></option>

        }
    }
%>
</select>
<input type="submit" value="Pilih"/>
</form>

<%
    if (barangTerpilih != null) {
%>
<hr>
<form method="post" action="EditServlet">
<input type="hidden" name="old_nama" value="<%= barangTerpilih.get("nama") %%" />
Nama: <input type="text" name="nama" value="<%= barangTerpilih.get("nama") %%" /><br>
Berat: <input type="number" name="berat" value="<%= barangTerpilih.get("berat") %%" /><br>
Jenis:
<select name="jenis">
<option value="sembako" <%= "sembako".equals(barangTerpilih.get("jenis")) ? "selected" : "" %">>Sembako</option>
<option value="pakaian" <%= "pakaian".equals(barangTerpilih.get("jenis")) ? "selected" : "" %">>Pakaian</option>
<option value="lainnya" <%= "lainnya".equals(barangTerpilih.get("jenis")) ? "selected" : "" %">>Lainnya</option>
</select><br>
<input type="submit" value="Simpan Perubahan"/>
</form>

<%
    }
%>
<br>
<a href="index.jsp">Kembali ke halaman utama</a>
</body>
</html>

```

Index.jsp

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Home</title>

  </head>
  <body>
    <h1>Selamat datang di halaman utama</h1>
    <a href="product/add.jsp">Tambah Barang</a>
    <a href="View">Lihat Data</a>
    <a href="EditServlet">Edit Data</a>
    <br>
    <br>
    <span style="font-size: 8px;">saya gak kreatif jadi gini aja kak</span>
    <br>
  </body>
</html>
```

JDBC

```

public class JDBC {
    private Connection con;
    private Statement stmt;
    private boolean isConnected;
    private String message;

    public void connect(){
        String dbname = "barang_db";
        String username = "root";
        String password = "";

        try{
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/"+dbname, username, password);
            stmt = con.createStatement();
            isConnected = true;
            message = "DB connected";
            System.out.println(message);
        }catch(Exception e){
            isConnected = false;
            message = e.getMessage();
            System.err.println(message);
        }
    }

    private void disconnected() {
        try {
            stmt.close();
            con.close();
        } catch (Exception e) {
            message = e.getMessage();
        }
    }

    public void runQuery(String query){
        try {
            connect();
            int result = stmt.executeUpdate(query);
            message = "info : " + result + " rows affected";
        } catch (Exception e) {
            message = e.getMessage();
        }finally{
            disconnected();
        }
    }

    public String getMessage() {
        return message;
    }
}

```

```

public ResultSet getAllBarang() {
    ResultSet rs = null;
    try {
        connect();
        String query = "SELECT nama, berat, jenis FROM barang";
        rs = stmt.executeQuery(query);
    } catch (Exception e) {
        message = e.getMessage();
    }
    return rs;
}

public ResultSet getBarangByName(String nama) {
    ResultSet rs = null;
    try {
        connect();
        String query = "SELECT nama, berat, jenis FROM barang WHERE nama='" + nama + "'";
        rs = stmt.executeQuery(query);
    } catch (Exception e) {
        message = e.getMessage();
    }
    return rs;
}

public void updateBarang(String oldNama, String nama, String berat, String jenis) {
    try {
        connect();
        String query = "UPDATE barang SET nama='" + nama + "', berat='" + berat + "', jenis='" + jenis + "' WHERE nama='" + oldNama + "'";
        stmt.executeUpdate(query);
        message = "Data berhasil diupdate";
    } catch (Exception e) {
        message = e.getMessage();
    } finally {
        disconnected();
    }
}

```

Hasil

Selamat datang di halaman utama

[Tambah Barang](#) [Lihat Data](#) [Edit Data](#)

saya gak kreatif jadi gini aja kak

nama : gula

berat : 10

jenis : Sembako ▼

Kirim

[Kembali ke halaman utama](#)

Daftar Barang

Nama	Berat	Jenis
beras	67	sembako
minyak	12	sembako
baju	1	pakaian
mie	10	lainnya
mie	10	lainnya
semangka	12	lainnya
gula	10	sembako

Edit Data Barang

Pilih Barang yang ingin diubah: beras ▼

Nama: beras

Berat: 69

Jenis: Pakaian ▼

[Kembali ke halaman utama](#)

Daftar Barang

Nama	Berat	Jenis
beras	69	pakaian
minyak	12	sembako
baju	1	pakaian
mie	10	lainnya
mie	10	lainnya
semangka	12	lainnya
gula	10	sembako

[Kembali ke halaman utama](#) [Tambah Barang](#) [Edit data](#)