

Practice Project - Adding a New Product in the Database

Source Code:

Product.java

```
package com;

public class Product {

    private String id, name, cost, quantity;

    public Product() {
        super();
    }

    public Product(String id, String name, String cost, String quantity) {
        super();
        this.id = id;
        this.name = name;
        this.cost = cost;
        this.quantity = quantity;
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getCost() {
        return cost;
    }

    public void setCost(String cost) {
        this.cost = cost;
    }

    public String getQuantity() {
        return quantity;
    }
}
```

```

public void setquantity(String quantity) {
    this.quantity = quantity;
}

}

```

ProductAdd.java

```

package com;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

public class ProductAdd {

    private String dbUrl = "jdbc:mysql://localhost:3306/moulaali_db";
    private String dbUname = "root";
    private String dbPassword = "Aashiyana@11";
    private String dbDriver = "com.mysql.cj.jdbc.Driver";

    public void loadDriver(String dbDriver)
    {
        try {
            Class.forName(dbDriver);
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    public Connection getConnection()
    {
        Connection con = null;
        try {
            con = DriverManager.getConnection(dbUrl, dbUname, dbPassword);
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
        return con;
    }

    public String insert(Product member)
    {
        loadDriver(dbDriver);
        Connection con = getConnection();
        String result = "Data Insert Successfully";
    }
}

```

```

String sql = "insert into addproduct values(?,?,?,?)";

PreparedStatement ps;
try {
    ps = con.prepareStatement(sql);
    ps.setString(1, member.getId());
    ps.setString(2, member.getName());
    ps.setString(3, member.getCost());
    ps.setString(4, member.getQuantity());
    ps.executeUpdate();
} catch (SQLException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
    result = "Data insertion failed";
}
return result;
}

```

Register.java

```

package com;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/Register")
public class Register extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Register() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
     HttpServletResponse response)
     */

```

```

        protected void doGet(HttpServletRequest request, HttpServletResponse
response)
            throws ServletException, IOException {
            // TODO Auto-generated method stub

            response.getWriter().append("Served at:
").append(request.getContextPath());
        }
        /**
         * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {

            String id = request.getParameter("id");
            String name = request.getParameter("name");
            String cost = request.getParameter("cost");
            String quantity = request.getParameter("quantity");

            Product member = new Product(id, name, cost, quantity);
            ProductAdd rDao = new ProductAdd();
            String result = rDao.insert(member);
            response.getWriter().print(result);
        }
    }
}

```

Index.html

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Product Registration</title>
</head>
<body>
<form action="Register" method="post">
<table>
<tr><td>Product ID: </td><td><input type="text" name="id"></td></tr>
<tr><td>Product Name: </td><td><input type="text" name="name"></td></tr>
<tr><td>Product Cost: </td><td><input type="text" name="cost"></td></tr>
<tr><td>Quantity: </td><td><input type="text" name="quantity"></td></tr>
<tr><td></td><td><input type="submit" value="Add Product"></td></tr>
</table>
</form>
</body>
</html>

```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID"
version="3.1">
  <display-name>AddProduct</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
</web-app>
```