# Practice Project - Adding a New Product in the Database

**Source Code:**

**Product.java**

```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;
}
```

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

}
```

ProductAdd.java

```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/db";
private String dbUname = "root";
private String dbPassword = "root";
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";
```

```java
        String sql = "insert into addprodut 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

```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)
       */
```

```java
        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

```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
<?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>
```