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**Project : Adding a New Product in the Database.**

**Project Objective :**

Create a servlet-based web application that shows a form to add new products. A MySQL database will be created to store product data. The form data will be validated, and a row will be added to the database. All database processing will be done using Hibernate.

## **SOURCE CODE :**

**index.html file :**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="save"method="post">
Name:<input type="text" name="pname"><br>
Price:<input type="text" name="pprice"><br>

<input type="submit" value="save"><br>
</form>

</body>
</html>
```

**application.properties file :**

```
driver=com.mysql.cj.jdbc.Driver
url=jdbc:mysql://localhost:3306/ecommerce
username=root
password=Surekha@456
```

## Database Configuration : (DBConfig)

```
package com.addaproduct;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.Properties;

public class DBConfig {

    public static Connection getConnection(Properties props) {

        Connection connection=null;

        try {
            //get url,username,password
            String driver= props.getProperty("driver");
            String url= props.getProperty("url");
            String username= props.getProperty("username");
            String password= props.getProperty("password");

            //to load driver
            Class.forName(driver);

            try {

                connection= DriverManager.getConnection(url,
                    username, password);
            } catch (SQLException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }

            } catch (ClassNotFoundException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }

            return connection;
        }
    }
}
```

## SaveServlet :

```
package com.addaproduct;

import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.math.BigDecimal;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.SQLException;
import java.util.Properties;

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("/save")
public class saveservlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        PrintWriter out = response.getWriter();

        Properties props = new Properties();

        InputStream in =
getServletContext().getResourceAsStream("/WEB-INF/application.properties");
        props.load(in);

        Connection conn = DBConfig.getConnection(props);

        /*
        * if (conn != null) out.print("Connection is Established"); else
        * out.print("Error while connecting connection");
        */
    }
}
```

```

        */

String name= request.getParameter("pname");
String price= request.getParameter("pprice");

try {
    CallableStatement stmt= conn.prepareCall("{call
add_product(?,?)}");

    stmt.setString(1, name);
    stmt.setBigDecimal(2, new BigDecimal(price));

    int x=stmt.executeUpdate();
    if(x>0) {

        }
    else {

        }

    System.out.println("Data inserted Successfully");out.print("Data inserted
Successfully"); response.sendRedirect("index.html");

    System.out.println("Error while uploading");
    response.sendRedirect("index.html");

    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

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

```

}

}

## Hibernate.cfg.xml file :

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
    "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

    <hibernate-configuration>

        <session-factory>
            <property
name="connection.driver_class">com.mysql.cj.jdbc.Driver</property>
            <property
name="connection.url">jdbc:mysql://localhost:3306/ecommerce</property>
            <property name="connection.username">root</property>
            <property
name="connection.password">Chandu@2022</property>
            <property name="hbm2ddl.auto">update</property>
            <property
name="dialect">org.hibernate.dialect.MySQL8Dialect</property>
            <property name="show_sql">true</property>
            <mapping resource="eproduct.hbm.xml"/>
        </session-factory>
    </hibernate-configuration>
```

## eproduct.hbm.xml :

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC
    "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
    "http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">

    <hibernate-mapping package="com.addaproduct">
        <class name="EProduct" table="eproduct">
            <id name="ID" type="long" column="ID">
                <generator class="identity"></generator>
            </id>
            <property name="name" type="string"
column="NAME"></property>
            <property name="price" type="big_decimal"
column="PRICE"></property>
```

```
<property name="dateAdded" type="timestamp"
column="DATE_ADDED"></property>
```

```
</class>
</hibernate-mapping>
OUTPUT:
```

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 68
Server version: 8.0.28 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use ecommerce
Database changed
mysql> select * from eproduct
-> ;
+-----+-----+-----+-----+
| ID | name                | price  | date_added          |
+-----+-----+-----+-----+
| 1 | HP Laptop ABC       | 21900.00 | 2019-06-04 07:18:57 |
| 2 | Acer Laptop ABC     | 23300.00 | 2019-06-04 07:19:07 |
| 3 | Lenovo Laptop ABC   | 33322.00 | 2019-06-04 07:19:19 |
| 4 | one plus            | 15000.00 | 2022-04-20 16:23:32 |
| 5 | LG                  | 30000.00 | 2022-04-20 16:24:31 |
| 6 | dell                | 20000.00 | 2022-04-20 16:40:02 |
| 7 | duroflex           | 30000.00 | 2022-04-22 12:10:19 |
| 8 | realme              | 15000.00 | 2022-04-22 12:31:18 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```