ADDING A NEW PRODUCT IN DATABASE

SOURCE CODE:

```
Index.html:
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Welcome to Hibernate CRUD application</h1>
<a href="read-product">Read Product</a>
<br/>
<br/>
<a href="add-product">Add Product</a>
</body>
</html>
```

Add-Product.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
   <h1> Add Product</h1>
   <form method="post" action="add-product">
         <fieldset>
                 <legend>Add Product form</legend>
                 Product Name: <input type="text" name="name" id="name" /><br/><br/>
                 Product Price: <input type="text" name="price" id = "price" /> <br/>
                 <input type="submit" value="Add Product">
         </fieldset>
  </form>
```

```
</body>
</html>
Hibernate.cfg.xml:
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration SYSTEM</pre>
"http://www.hibernate.org/dtd/hibernate-configuration-5.3.dtd">
<hibernate-configuration>
      <session-factory>
             property
name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
             property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/ecommerce</property>
             property name="hibernate.connection.username">root/property>
             property name="hibernate.connection.password">root/property>
             <!-- Optional properties -->
             property name="hibernate.show_sql">true/property>
             property name="hibernate.format sql">true/property>
             property name="hbm2ddl.auto">update
       <mapping class="com.entity.EProduct"/>
      <mapping class="com.servlets.AddProductServlet"/>
      <mapping class="com.ervlets.ReadProductServlet"/>
      <mapping class="com.util.HibernateUtil"/>
      </session-factory>
```

</hibernate-configuration>

```
ReadProductServlet.java:
package com.program;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
@WebServlet("/read-product")
public class ReadProductServlet extends HttpServlet {
       private static final long serialVersionUID = 1L;
  /**
  * @see HttpServlet#HttpServlet()
  public ReadProductServlet() {
    super();
    // TODO Auto-generated constructor stub
  }
       /**
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
              PrintWriter out = response.getWriter();
              SessionFactory sf = HibernateUtil.buildSessionFactory();
              Session session = sf.openSession();
```

```
List<EProduct> products = session.createQuery(" from EProduct").list();
             out.print("<h1> Product List :- </h1>");
             out.print("<style> table,td,th { border:2px solid red; padding: 10px; }</style>" );
             out.print("");
             out.print("");
             out.print(" Product Id ");
             out.print(" Product Name ");
             out.print("> Product Price ");
             out.print("");
             for(EProduct p : products) {
                   out.print("");
                    out.print(""+p.getId()+"");
                    out.print(""+p.getName()+"");
                    out.print(""+p.getPrice()+"");
                    out.print("");
             }
             out.print("");
             session.close();
      }
       * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
       */
      protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
             // TODO Auto-generated method stub
             doGet(request, response);
      }
}
```

```
AddProductServlet.java:
package com.program;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
@WebServlet("/add-product")
public class AddProductServlet extends HttpServlet {
       private static final long serialVersionUID = 1L;
  /**
  * @see HttpServlet#HttpServlet()
  public AddProductServlet() {
    super();
    // TODO Auto-generated constructor stub
  }
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
       */
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
              request.getRequestDispatcher("add-product.html").include(request, response);
       }
       /**
```

```
* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
        */
       protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
              PrintWriter out = response.getWriter();
              String productName = request.getParameter("name");
              String productPrice = request.getParameter("price");
              //Step1: Gets session Factory
              SessionFactory sf = HibernateUtil.buildSessionFactory();
              //Step 2: Gets Session object
              Session session = sf.openSession();
              //Step3: Gets Tx object and begin transaction
              Transaction tx = session.beginTransaction();
              // Step 4: Create and populate entity object
              EProduct product = new EProduct();
              product.setName(productName);
              product.setPrice(Double.parseDouble(productPrice));
              //Step 5: <h3 style='color:green'> ProductNischithNischith is created successfully
! </h3>Save record in DB
              session.save(product);
              tx.commit();
              out.print("<h3> Product is created successfully ! <h3>");
              session.close();
       }
}
```

EProduct.java:

```
package com.program;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.ld;
import javax.persistence.Table;
@Entity
@Table(name="eproduct_27012022")
public class EProduct {
       @ld
       @GeneratedValue
       @Column(name="eproduct_id")
       private int id;
       @Column(name="eproduct_name")
       private String name;
       @Column(name="eproduct_price")
       private Double price;
       //ALt + S + R
       public int getId() {
              return id;
       }
       public void setId(int id) {
              this.id = id;
       }
       public String getName() {
              return name;
       }
       public void setName(String name) {
```

```
this.name = name;
       }
       public Double getPrice() {
              return price;
       }
       public void setPrice(Double price) {
              this.price = price;
       }
}
HibernateUtil.java:
package com.program;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import com.entity.EProduct;
public class HibernateUtil {
       public static SessionFactory buildSessionFactory() {
              Configuration cfg = new Configuration();
              cfg.configure("hibernate.cfg.xml");
              cfg.addAnnotatedClass(EProduct.class);
              SessionFactory sf = cfg.buildSessionFactory();
              return sf;
       }
}
```