Adding a New Product in the Database source code

Class:

```
EProduct.java->filename
```

```
package com.ecommerce;
//package com.ecommerce;
import java.math.BigDecimal;
import java.util.Date;
import javax.persistence.*;
@Entity
@Table(name = "eproduct")
public class EProduct {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "ID")
    private long ID;
    @Column(name = "name")
    private String name;
    @Column(name = "price")
    private BigDecimal price;
    @Column(name = "date_added")
    private Date dateAdded;
    public EProduct() {
    }
    public EProduct(String name, BigDecimal price, Date dateAdded) {
      this.name = name;
      this.price = price;
        this.dateAdded = dateAdded;
    }
    public long getID() {
      return ID;
    public void setID(long ID) {
      this.ID = ID;
    public String getName() {
      return name;
    }
    public void setName(String name) {
      this.name = name;
```

```
public BigDecimal getPrice() {
    return price;
}

public void setPrice(BigDecimal price) {
    this.price = price;
}

public Date getDateAdded() {
    return dateAdded;
}

public void setDateAdded(Date dateAdded) {
    this.dateAdded = dateAdded;
}
```

Servlet filename

AddProductServlet->filename

```
package com.simpli;
import java.io.IOException; import java.math.BigDecimal; import java.util.Date;
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 com.ecommerce.EProduct;
@WebServlet("/AddProductServlet")
public class AddProductServlet extends HttpServlet {
      private static final long serialVersionUID = 1L;
      protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String name = request.getParameter("name");
        BigDecimal price = new BigDecimal(request.getParameter("price"));
        Date dateAdded = new Date();
        EProduct product = new EProduct(name, price, dateAdded);
        SessionFactory sessionFactory = HibernateUtil.getSessionFactory();
        Session session = sessionFactory.openSession();
        session.beginTransaction();
        session.save(product);
        session.getTransaction().commit();
        session.close();
```

```
response.sendRedirect("index.jsp");
}
```

Classfile

HibernateUtil->filename

```
package com.simpli;
import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
public class HibernateUtil {
   private static final SessionFactory;
    static {
            StandardServiceRegistry standardRegistry = new
StandardServiceRegistryBuilder()
                    .configure("hibernate.cfg.xml")
                    .build();
           Metadata metaData = new MetadataSources(standardRegistry)
                    .getMetadataBuilder()
                    .build();
           sessionFactory = metaData.getSessionFactoryBuilder().build();
        } catch (Throwable th) {
                                            throw new
ExceptionInInitializerError(th);
   }
    public static SessionFactory getSessionFactory() {
      return sessionFactory;
    }
}
Hibernate.cfg.xml
<?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="hibernate.dialect">org.hibernate.dialect.MySQL5Dialect/property>
        property
name="hibernate.connection.driver_class">com.mysql.cj.jdbc.Driver/property>
        property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/products/property>
        cproperty name="hibernate.connection.username">rock
```

```
property name="hibernate.connection.password">@aadi123
        cproperty name="show_sql">true</property>
        <mapping class="com.ecommerce.EProduct" />
    </session-factory>
</hibernate-configuration>
Web.xml
<?xml version="1.0" encoding="UTF-8"?>
<element>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app 2 5.xsd" id="WebApp ID" version="2.5">
  <display-name>phase2pro3</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>
      <servlet>
        <servlet-name>AddProductServlet</servlet-name>
        <servlet-class>com.simpli.AddProductServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>AddProductServlet</servlet-name>
        <url-pattern>/AddProductServlet</url-pattern>
    </servlet-mapping>
    <welcome-file-list>
        <welcome-file>index.jsp</welcome-file>
    </welcome-file-list>
</web-app>
</element>
Jsp
Add_product->filename
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html>
<head>
    <title>Add Product</title>
</head>
<body>
    <h2>Add Product</h2>
```

<form method="POST" action="add_product">
 <label for="name">Name:</label>

<input type="text" id="name" name="name" required>


```
<label for="price">Price:</label>
        <input type="number" id="price" name="price" min="0" step="0.01"</pre>
required><br><br>
        <input type="submit" value="Add_Product">
    </form>
</body>
</html>
Index.jsp
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Add Product</title>
</head>
<body>
    <h3>Add Product</h3>
    <form action="AddProductServlet" method="post">
        <label for="name">Product Name:</label>
         <input type="text" id="name" name="name" required><br><br>
        <label for="price">Price:</label>
        <input type="text" id="price" name="price" required><br><br>
        <input type="submit" value="Add Product">
    </form>
</body>
</html>
Sql queries
use products;
select * from eproduct;
```