**Practice project**

Adding a New Product in the Database using Hibernate

Code:

Index.html:

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"HibernateTestServlet"* method=*"get"*>

Enter Product id<input type=*"text"* name=*"txtPid"*><br>

Enter Product name<input type=*"text"* name=*"txtName"*>

<input type=*"submit"* value=*"Click"*>

</body>

</html>

ProductDetails.java class:

**package** beans;

**public** **class** ProductDetails {

**private** **int** productid;

**private** String productname;

**public** **int** getProductid() {

**return** productid;

}

**public** **void** setProductid(**int** productid) {

**this**.productid = productid;

}

**public** String getProductname() {

**return** productname;

}

**public** **void** setProductname(String productname) {

**this**.productname = productname;

}

}

HibernateTestServlet.java servlet:

**package** services;

**import** java.io.File;

**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;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.cfg.Configuration;

**import** beans.ProductDetails;

/\*\*

\* Servlet implementation class HibernateTestServlet

\*/

@WebServlet("/HibernateTestServlet")

**public** **class** HibernateTestServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** HibernateTestServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

**void** register(ProductDetails pd){

SessionFactory sessionFactory=**new** Configuration().configure(**new** File("C:\\Users\\varad\\eclipse-workspace\\HibernateAddProduct\\src\\main\\java\\hibernate.cfg.xml")).buildSessionFactory();

Session session=sessionFactory.openSession();

session.beginTransaction();

session.save(pd);

session.getTransaction().commit();

}

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

//Reading parameters from html

**int** pid=Integer.*parseInt*(request.getParameter("txtPid"));

String pname=request.getParameter("txtName");

//create Object of UserDetails

ProductDetails pd=**new** ProductDetails();

pd.setProductid(pid);

pd.setProductname(pname);

//call register method

register(pd);

}

}

hibernate.cfg.xml:

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!--~ Hibernate Search, full-text search for your domain model~~ License: GNU Lesser General Public License (LGPL), version 2.1 or later~ See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>. -->

<!DOCTYPE hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD//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/Work</property>

<property name=*"connection.username"*>Work</property>

<property name=*"connection.password"*>Simplilearn@123</property>

<!-- JDBC connection pool (use the built-in) -->

<property name=*"connection.pool\_size"*>1</property>

<!-- SQL dialect -->

<property name=*"dialect"*>org.hibernate.dialect.MySQL5Dialect</property>

<!-- Echo all executed SQL to stdout -->

<property name=*"show\_sql"*>true</property>

<!-- Drop and re-create the database schema on startup -->

<property name=*"hbm2ddl.auto"*>create-drop</property>

<mapping resource=*"ProductDetails.hbm.xml"*/>

</session-factory>

</hibernate-configuration>

ProductDetails.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=*"beans"* default-access=*"field"*>

<class name=*"ProductDetails"* table=*"ProductDetails"* >

<id name=*"productid"* column=*"id"* type=*"java.lang.Integer"*></id>

<property name=*"productname"* length=*"20"*></property>

</class>

</hibernate-mapping>

Web.xml:

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* 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\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>HibernateAddProduct</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

</welcome-file-list>

</web-app>