**Student.java:**

**package** com.hibernate.models;

**public** **class** Student {

**private** **int** rollNo;

**private** String name;

**private** String email;

**private** String course;

**public** **int** getRollNo() {

**return** rollNo;

}

**public** **void** setRollNo(**int** rollNo) {

**this**.rollNo = rollNo;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getCourse() {

**return** course;

}

**public** **void** setCourse(String course) {

**this**.course = course;

}

}

**HibernateConfig.java:**

**package** com.hibernate.connection;

**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** HibernateConfig {

**private** **static** SessionFactory *sessionFactory*;

**public** **static** SessionFactory getSessionFactory() {

**if**(*sessionFactory* == **null**) {

**try** {

StandardServiceRegistry standardRegistry = **new** StandardServiceRegistryBuilder()

.configure("hibernate.cfg.xml").build();

Metadata metadata = **new** MetadataSources(standardRegistry).getMetadataBuilder().build();

*sessionFactory* = metadata.getSessionFactoryBuilder().build();

} **catch** (Exception e) {

e.printStackTrace();

}

}

**return** *sessionFactory*;

}

}

**student.hbm.xml:**

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

<!DOCTYPE hibernate-mapping PUBLIC

"-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name=*"com.hibernate.models.Student"* table=*"StudentInfo"*>

<id name=*"rollNo"* type=*"int"* column=*"roll\_no"*>

<generator class=*"assigned"*/>

</id>

<property name=*"name"*></property>

<property name=*"email"*></property>

<property name=*"course"*></property>

</class>

</hibernate-mapping>

**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.connection.driver\_class"*>com.mysql.cj.jdbc.Driver</property>

<property name=*"hibernate.connection.url"*>jdbc:mysql://localhost:3306/hibernateDemo</property>

<property name=*"hibernate.connection.username"*>root</property>

<property name=*"hibernate.connection.password"*>Tushar2625@</property>

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

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

<property name=*"hbm2ddl.auto"*>update</property>

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

</session-factory>

</hibernate-configuration>

**StudentServlet.java:**

**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;

**import** com.hibernate.connection.HibernateConfig;

**import** com.hibernate.models.Student;

/\*\*

\* Servlet implementation class StudentServlet

\*/

@WebServlet("/StudentServlet")

**public** **class** StudentServlet **extends** HttpServlet {

**private** **static** SessionFactory *sessionFactory* = **null**;

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** StudentServlet() {

**super**();

*sessionFactory* = HibernateConfig.*getSessionFactory*();

}

/\*\*

\* **@see** HttpServlet#service(HttpServletRequest request, HttpServletResponse response)

\*/

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

**try** {

Session session = *sessionFactory*.openSession();

List<Student> studentList = (List<Student>) session.createQuery("from Student").list();

session.close();

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("<table style='width: 100%;'>");

out.println("<thead style='width: 100%;'><tr style='width: 100%;'>");

out.println("<th style='width: 25%; text-align: center;'>Roll No</th>");

out.println("<th style='width: 25%; text-align: center;'>Name</th>");

out.println("<th style='width: 25%; text-align: center;'>Email</th>");

out.println("<th style='width: 25%; text-align: center;'>Course</th>");

out.println("</tr></thead>");

out.println("<tbody style='width: 100%;'>");

**for**(Student student:studentList) {

out.println("<tr style='width: 100%;'>");

out.println("<td style='width: 25%; text-align: center;'>"+student.getRollNo()+"</td>");

out.println("<td style='width: 25%; text-align: center;'>"+student.getName()+"</td>");

out.println("<td style='width: 25%; text-align: center;'>"+student.getEmail()+"</td>");

out.println("<td style='width: 25%; text-align: center;'>"+student.getCourse()+"</td>");

out.println("</tr>");

}

out.println("</tbody>");

out.println("</table>");

} **catch** (Exception e) {

e.printStackTrace();

}

}

}

**index.html:**

<!DOCTYPE html>

<html>

<head>

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

<title>Hibernate config with xml</title>

</head>

<body>

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

<input type=*"submit"* value=*"Fetch students data"* />

</form>

</body>

</html>