Phase – 2 Practice Project: Assisted Practice

21. Configure Hibernate in Eclipse IDE.
- **Code**
- ✓ **hibernate.cfg.xml**

```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>
    <!-- Database connection settings -->
    <property
name="connection.driver_class">com.mysql.cj.jdbc.Driver</property>
    <property
name="connection.url">jdbc:mysql://localhost:3306/ecommerce1</property>
    <property name="connection.username">root</property>
    <property name="connection.password">Arun121212</property>

  </session-factory>
</hibernate-configuration>
```

✓ **index.html**

```html
<title>Hibernate Configuration Example </title>
<h3>Hibernate Configuration Example </h3>

<a href="init">Initialize Hibernate</a><br>
```

✓ **HibernateUtil.java**

```java
package com.simpli;

import org.hibernate.SessionFactory;

import org.hibernate.boot.*;
import org.hibernate.boot.registry.*;

public class HibernateUtil {

    private static final SessionFactory sessionFactory;

    static {
        try {
            StandardServiceRegistry standardRegistry = new
StandardServiceRegistryBuilder()
                    .configure("hibernate.cfg.xml").build();

            Metadata metaData = new
MetadataSources(standardRegistry).getMetadataBuilder().build();
```

```java
            sessionFactory =
metaData.getSessionFactoryBuilder().build();

            } catch (Throwable th) {
                throw new ExceptionInInitializerError(th);
            }
        }

    public static SessionFactory getSessionFactory() {
            return sessionFactory;
        }

}
```

✓ InitDemo.java

```java
package com.simpli;

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;

/**
 * Servlet implementation class InitDemo
 */
@WebServlet("/init")
public class InitDemo extends HttpServlet {
    private static final long serialVersionUID = 1L;

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

            PrintWriter out = response.getWriter();
            out.println("<html><body>");

            // step 1 : get a session (connection) from the session
factory class
            SessionFactory factory = HibernateUtil.getSessionFactory();
            Session session = factory.openSession();

            out.println("Hibernate Session Opened.<br>");

            session.close();

            out.println("Hibernate Session Closed.<br>");
```

```
        out.println("</html></body>");

    }

}
```

- **Output**