**Hibernate 4 : How to build SessionFactory**

If you have been watching previous hibernate releases then you must have noticed that they have deprecated a lot of classes in quick succession. **Deprecated classes are AnnotationConfiguration,  ServiceRegistryBuilder and so on**. These classes are used to build session factory through your java code and if you use them in your application; they might work well but you will always see some annoying warnings about their depreciation.

In this tutorial, I am giving an example of **building hibernate SessionFactory without using deprecated classes** mentioned above. I am using latest hibernate version i.e. [**Hibernate 4.3.6.Final**](http://hibernate.org/orm/downloads/), so you can make sure that you are using latest approach for building session factory.

**Classes used in building SessionFactory**

I have used following classes for building SessionFactory in hibernate 4.

1. **Configuration** : In place of deprecated AnnotationConfiguration
2. **StandardServiceRegistryBuilder** : In place of deprecated ServiceRegistryBuilder

**How to build SessionFactory in hibernate 4**

Use below example code build the session factory in hibernate 4. Feel free to tweak the code as per your need.

package com.howtodoinjava.demo.util;

import org.hibernate.SessionFactory;

import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

import org.hibernate.cfg.Configuration;

import org.hibernate.service.ServiceRegistry;

public class HibernateUtil

{

private static SessionFactory sessionFactory = buildSessionFactory();

private static SessionFactory buildSessionFactory()

{

try

{

if (sessionFactory == null)

{

Configuration configuration = new Configuration().configure(HibernateUtil.class.getResource("/hibernate.cfg.xml"));

StandardServiceRegistryBuilder serviceRegistryBuilder = new StandardServiceRegistryBuilder();

serviceRegistryBuilder.applySettings(configuration.getProperties());

ServiceRegistry serviceRegistry = serviceRegistryBuilder.build();

sessionFactory = configuration.buildSessionFactory(serviceRegistry);

}

return sessionFactory;

} catch (Throwable ex)

{

System.err.println("Initial SessionFactory creation failed." + ex);

throw new ExceptionInInitializerError(ex);

}

}

public static SessionFactory getSessionFactory()

{

return sessionFactory;

}

public static void shutdown()

{

getSessionFactory().close();

}

}