

# Technologie JEE

## Rapport TP N°3 : Hibernate

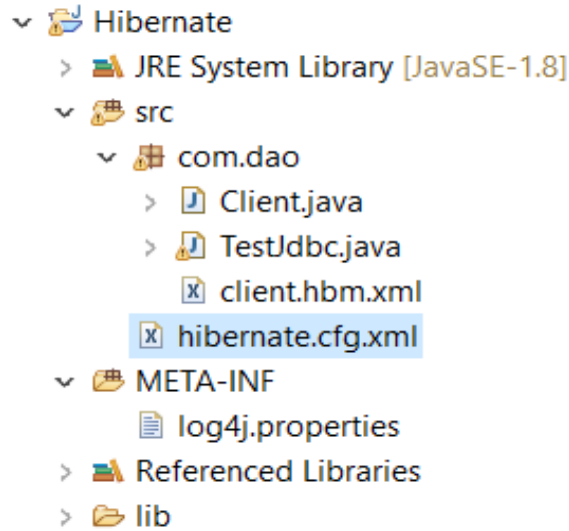
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## Architecture finale du projet :



## Le fichier de configuration hibernate.cfg.xml :

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
    "http://hibernate.sourceforge.net/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/db_clients?useSSL=false&serverTimezone=UTC</property>
        <property name="connection.username">root</property>
        <property name="connection.password"></property>
        <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
        <property name="hibernate.hbm2ddl.auto">update</property>
        <property name="current_session_context_class">thread</property>
        <mapping resource="./com/dao/client.hbm.xml"/>
    </session-factory>
</hibernate-configuration>
```

Le fichier de Mapping client.hbm.xml:

```
<?xml version="1.0"?>
<!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.dao.Client" table="CLIENT">
    <id name="code" type="long">
      <column name="CODE_CLIENT" />
      <generator class="assigned" />
    </id>
    <property name="nom" type="java.lang.String">
      <column name="NOM_CLIENT" />
    </property>
    <property name="prenom" type="java.lang.String">
      <column name="PRENOM_CLIENT" />
    </property>
    <property name="age" type="int">
      <column name="AGE_CLIENT" />
    </property>
    <property name="ville" type="java.lang.String">
      <column name="VILLE_CLIENT" />
    </property>
  </class>
</hibernate-mapping>
```

## La classe java Client :

```
public class Client {
    private long code;
    private String nom;
    private String prenom;
    private int age;
    private String ville;

    public Client() {
        super();
        // TODO Auto-generated constructor stub
    }

    public Client(long code, String nom, String prenom, int age, String ville) {
        super();
        this.code = code;
        this.nom = nom;
        this.prenom = prenom;
        this.age = age;
        this.ville = ville;
    }

    public long getCode() {
        return code;
    }

    public void setCode(long code) {
        this.code = code;
    }

    public String getNom() {
        return nom;
    }

    public void setNom(String nom) {
        this.nom = nom;
    }

    public String getPrenom() {
        return prenom;
    }

    public void setPrenom(String prenom) {
        this.prenom = prenom;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public String getVille() {
        return ville;
    }

    public void setVille(String ville) {
        this.ville = ville;
    }
}
```

La class principale de notre projet Test\_Hibernate :

```
package com.dao;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.cfg.Configuration;

/**
 * @author Abdelghani
 */
public class TestJdbc {

    /**
     * @param args
     */
    public static void main(String[] args) {

        SessionFactory sf = new Configuration().configure("hibernate.cfg.xml").buildSessionFactory();
        Session session = sf.openSession();

        try {

            // Nos prochaines instructions se passeront ici

        }
        catch (Exception exc) {
            exc.printStackTrace();
        }
        finally {
            sf.close();
        }
    }
}
```

## Insertion des clients :

```
Transaction transaction = session.beginTransaction();
Client c1 = new Client(1,"Khallad","Yasmine", 23, "Fes");
Client c2 = new Client(2,"Moussaid","Abdelghani", 26, "Khouribga");
Client c3 = new Client(3,"Allam","Said", 25, "Settat");
session.save(c1);
session.save(c2);
session.save(c3);
session.getTransaction().commit();
System.out.println("Added");
```

## Verification :

Recent
Favorites

New
clientdb
comptoir
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db\_clients
ecole
etudiant
exam\_db
New
table\_client
gestion-produit
information\_schema
lab
mysql
pdi
performance\_schema
phpmyadmin
test
todos\_app
ventes datamart

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

SELECT \* FROM `client`

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	CODE_CLIENT	NOM_CLIENT	PRENOM_CLIENT	AGE_CLIENT	VILLE_CLIENT
<input type="checkbox"/> Edit Copy Delete	1	Khallad	Yassmine	23	Fes
<input type="checkbox"/> Edit Copy Delete	2	Moussaid	Abdelghani	26	Khouribga
<input type="checkbox"/> Edit Copy Delete	3	Allam	Said	25	Settat

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

## Modifier :

```

Transaction transaction=session.beginTransaction();

long id = 1;
Client nouveau = (Client) session.load(Client.class, id);

nouveau.setNom("Attar");

session.getTransaction().commit();
System.out.println("Done!");

```

Verification :

←T→	CODE_CLIENT	NOM_CLIENT	PRENOM_CLIENT	AGE_CLIENT	VILLE_CLIENT
<input type="checkbox"/> Edit Copy Delete	1	Attar	Yassmine	23	Fes
<input type="checkbox"/> Edit Copy Delete	2	Moussaid	Abdelghani	26	Khouribga
<input type="checkbox"/> Edit Copy Delete	3	Allam	Said	25	Settat

Suppression :

```

Transaction transaction=session.beginTransaction();

long id = 2;
Client nouveau = (Client) session.load(Client.class, id);

session.delete(nouveau);

session.getTransaction().commit();
System.out.println("Done!");
    
```

Verfication :

←T→	CODE_CLIENT	NOM_CLIENT	PRENOM_CLIENT	AGE_CLIENT	VILLE_CLIENT
<input type="checkbox"/> Edit Copy Delete	1	Attar	Yassmine	23	Fes
<input type="checkbox"/> Edit Copy Delete	3	Allam	Said	25	Settat