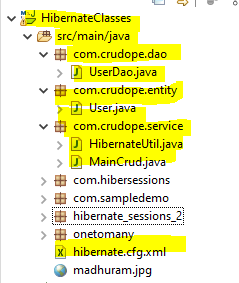
**CRUD in Hibernate**



**package** com.crudope.entity;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@Entity

@Table(name = "user\_data")

**public** **class** User {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** id;

@Column(name = "first\_name")

**private** String firstName;

@Column(name = "last\_name")

**private** String lastName;

@Column(name = "email")

**private** String email;

**public** User() {

**super**();

}

**public** User(**int** id, String firstName, String lastName, String email) {

**super**();

**this**.id = id;

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.email = email;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getEmail() {

**return** email;

}

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

**this**.email = email;

}

}

**package** com.crudope.service;

**import** org.hibernate.SessionFactory;

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

**public** **class** HibernateUtil {

**private** **static** **final** SessionFactory ***sessionFactory*** = *buildSessionFactory*();

**private** **static** SessionFactory buildSessionFactory() {

**try** {

**return** **new** Configuration().configure("hibernate.cfg.xml").buildSessionFactory();

} **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();

}

}

**package** com.crudope.dao;

**import** java.util.List;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** com.crudope.entity.User;

**import** com.crudope.service.HibernateUtil;

**public** **class** UserDao {

**private** SessionFactory sessionFactory = HibernateUtil.*getSessionFactory*();

// to insert data in the database

**public** **void** save(User user) {

Session session = sessionFactory.openSession();

Transaction tx = session.beginTransaction();

session.save(user);

tx.commit();

session.close();

}

// to select data from database

**public** User getById(**int** id) {

Session session = sessionFactory.openSession();

User user = session.get(User.**class**, id);

session.close();

**return** user;

}

// to select all the records

@SuppressWarnings("unchecked")

**public** List<User> getAll() {

Session session = sessionFactory.openSession();

List<User> allrecords = session.createQuery("from User").list();

session.close();

**return** allrecords;

}

// updates the record(s) in database

**public** **void** update(User user) {

Session session = sessionFactory.openSession();

Transaction tx = session.beginTransaction();

session.update(user);

tx.commit();

session.close();

}

// to delete a record(s) from database

**public** **void** delete(User user) {

Session session = sessionFactory.openSession();

Transaction tx = session.beginTransaction();

session.delete(user);

tx.commit();

session.close();

}

}

**package** com.crudope.service;

**import** java.util.List;

**import** com.crudope.dao.UserDao;

**import** com.crudope.entity.User;

**public** **class** MainCrud {

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

UserDao userDao = **new** UserDao();

// Create

User newUser = **new** User();

newUser.setFirstName("Ram");

newUser.setLastName("Kumar");

newUser.setEmail("ram.kumar@example.com");

userDao.save(newUser);

// Read

User retrievedUser = userDao.getById(1);

System.***out***.println("Retrieved User: " + retrievedUser.getFirstName());

retrievedUser.setFirstName("Sai");

userDao.update(retrievedUser);

// Display all data

List<User> li = userDao.getAll();

**for** (User data : li) {

System.***out***.println(

data.getId() + " " + data.getFirstName() + " " + data.getLastName() + " " + data.getEmail());

}

}

}

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

<!DOCTYPE hibernate-configuration SYSTEM

"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/empdb?useSSL=false</property>

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

<property name=*"connection.password"*>root</property>

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

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

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

<!-- tag added to create a new table from the class. -->

<!-- <mapping class="com.hibersessions.Student" />

<mapping class="com.hibersessions.Address" />

<mapping class="com.hibersessions.StudentEmbed" /> -->

<!-- <mapping class="hibernate\_sessions\_2.Questions" />

<mapping class="hibernate\_sessions\_2.Answer" /> -->

<mapping class=*"com.crudope.entity.User"*/>

</session-factory>

</hibernate-configuration>