**Code mẫu :**

|  |
| --- |
| package daoImpl;  import java.util.List;  import dao.DienThoaiDao;  import jakarta.persistence.EntityManager;  import jakarta.persistence.EntityTransaction;  import models.DienThoai;  @SuppressWarnings(value={"unchecked"})  public class DienThoaiDaoImpl implements DienThoaiDao{  private EntityManager entityManager; // khai báo biến entityManager dùng để thao tác với database (CRUD)      public DienThoaiDaoImpl(EntityManager entityManager) {  this.entityManager = entityManager; // gán giá trị cho biến entityManager  }  @Override  public List<DienThoai> layTatCaDT() {  try {  return entityManager.createQuery("from DienThoai").getResultList();  } catch (Exception e) {  e.printStackTrace();  }  return null;  }  @Override  public DienThoai timDienThoaiTheoMa(int maDT) {  try {  DienThoai dt = entityManager.find(DienThoai.class, maDT);  return dt;  } catch (Exception e) {  e.printStackTrace();  }  return null;  }  @Override  public DienThoai themDienThoai(DienThoai dienThoai) {  EntityTransaction transaction =null;  try {  transaction = entityManager.getTransaction();  transaction.begin();  entityManager.persist(dienThoai);  transaction.commit();  return dienThoai;  } catch (Exception e) {  e.printStackTrace();  if (transaction != null && transaction.isActive()) {  transaction.rollback();  }  }  return null;    }  @Override  public DienThoai capNhatDienThoai(DienThoai dienThoai) {  EntityTransaction transaction =null;  try {  transaction = entityManager.getTransaction();  transaction.begin();  entityManager.merge(dienThoai);  transaction.commit();  return dienThoai;  } catch (Exception e) {  e.printStackTrace();  if (transaction != null && transaction.isActive()) {  transaction.rollback();  }  }  return null;    }  @Override  public boolean xoaDienThoai(int maDT) {  EntityTransaction transaction =null;  try {  transaction = entityManager.getTransaction();  transaction.begin();  DienThoai dt = entityManager.find(DienThoai.class, maDT);  if (dt == null) {  if (entityManager.contains(dt)) {  entityManager.remove(dt);  } else {  entityManager.remove(entityManager.merge(dt)); // merge: gộp đối tượng dt vào trong context của entityManager  }  }  transaction.commit(); // dùng để lưu lại các thay đổi vào database  return true;  } catch (Exception e) {  e.printStackTrace();  if (transaction != null && transaction.isActive()) {  transaction.rollback();  }  }  return false;  }        } |