****Package com.pizzamanagement.dao****

================================

JPAUtil.java

```java
package com.pizzamanagement.dao;

import javax.persistence.EntityManager;

import javax.persistence.EntityManagerFactory;

import javax.persistence.Persistence;


public class JPAUtil {


        private static EntityManagerFactory factory;

        private static EntityManager entityManager;

        static {

                factory = Persistence.createEntityManagerFactory("PIZZA");

        }


        public static EntityManager getEntityManger() {

                if(entityManager==null || !entityManager.isOpen()) {

                        entityManager = factory.createEntityManager();

                }

                return entityManager;

        }


}
```

PizzaDao.java

```java
package com.pizzamanagement.dao;

import com.pizzamanagement.model.Pizza;

public interface PizzaDao {
        Pizza getPizzaByNo(int no);

        void addPizza(Pizza pizza);

        void updatePizza(Pizza pizza);

        void deletePizza(Pizza pizza);

        void commitTransaction();
        void beginTransaction();

}
```

PizzaDaoImpl.java

```java
package com.pizzamanagement.dao;


import javax.persistence.EntityManager;


import com.pizzamanagement.model.Pizza;


public class PizzaDaoImpl implements PizzaDao {

        private EntityManager entityManager;

        public PizzaDaoImpl() {

                entityManager=JPAUtil.getEntityManger();

        }

        @Override

        public Pizza getPizzaByNo(int no) {

                Pizza pizza = entityManager.find(Pizza.class, no);

                return pizza;
```

```java
        }

        @Override

        public void addPizza(Pizza pizza) {

                entityManager.persist(pizza);


        }

        @Override

        public void updatePizza(Pizza pizza) {

                entityManager.merge(pizza);


        }

        @Override

        public void deletePizza(Pizza pizza) {

                entityManager.remove(pizza);


        }

        @Override

        public void commitTransaction() {

                entityManager.getTransaction().commit();


        }

        @Override

        public void beginTransaction() {

                entityManager.getTransaction().begin();
```

```java
        }

}
```

****package com.pizzamanagement.model****

==

<u>Pizza.java</u>

```java
package com.pizzamanagement.model;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;


@Entity
@Table(name="pizzalyrd")
public class Pizza {


        @Id
        private int pizzaNo;

        private String pizzaType;

        private int pizzaPrice;

        private String DeliveryAdd;


        public int getPizzaNo() {

                return pizzaNo;
```

```java
        }

        public void setPizzaNo(int pizzaNo) {

                this.pizzaNo = pizzaNo;

        }


        public String getPizzaType() {

                return pizzaType;

        }


        public void setPizzaType(String pizzaType) {

                this.pizzaType = pizzaType;

        }


        public int getPizzaPrice() {

                return pizzaPrice;

        }


        public void setPizzaPrice(int pizzaPrice) {

                this.pizzaPrice = pizzaPrice;

        }


        public String getDeliveryAdd() {

                return DeliveryAdd;

        }
```

```java
        public void setDeliveryAdd(String deliveryAdd) {

                DeliveryAdd = deliveryAdd;

        }


        public Pizza() {

                // TODO Auto-generated constructor stub

        }


        public Pizza(int pizzaNo, String pizzaType, int pizzaPrice, String deliveryAdd) {

                super();

                this.pizzaNo = pizzaNo;

                this.pizzaType = pizzaType;

                this.pizzaPrice = pizzaPrice;

                DeliveryAdd = deliveryAdd;

        }


        @Override
        public String toString() {

                return "Pizza [pizzaNo=" + pizzaNo + ", pizzaType=" + pizzaType + ", pizzaPrice=" +
pizzaPrice

                                + ", DeliveryAdd=" + DeliveryAdd + "]";

        }
}
```

****Package com.pizzamanagement.service****

===

PizzaService.java

```java
package com.pizzamanagement.service;

import com.pizzamanagement.model.Pizza;

public interface PizzaService {

        public void addPizza(Pizza pizza);

        public void updatePizza(Pizza pizza);

        public void deletePizza(Pizza pizza);

        Pizza findPizzaByNo(int no);
}
```

PizzaServiceImpl.java

```java
package com.pizzamanagement.service;


import com.pizzamanagement.dao.PizzaDao;

import com.pizzamanagement.dao.PizzaDaoImpl;

import com.pizzamanagement.model.Pizza;


public class PizzaServiceImpl implements PizzaService{

            private PizzaDao dao;

            public PizzaServiceImpl()

            {

                    dao= new PizzaDaoImpl();

            }
```

```java
@Override

public void addPizza(Pizza pizza) {

        dao.beginTransaction();

        dao.addPizza(pizza);

        dao.commitTransaction();


}


@Override

public void updatePizza(Pizza pizza) {

        dao.beginTransaction();

        dao.updatePizza(pizza);

        dao.commitTransaction();



}


@Override

public void deletePizza(Pizza pizza) {

        dao.beginTransaction();

        dao.deletePizza(pizza);

        dao.commitTransaction();


}
```

```java
            @Override

            public Pizza findPizzaByNo(int no) {

                    Pizza pizza=dao.getPizzaByNo(no);

                    return pizza;

            }

}
```

****Package com.pizzamanagement.ui****

=====================================

Test.java

```java
package com.pizzamanagement.ui;


import com.pizzamanagement.model.Pizza;

import com.pizzamanagement.service.PizzaService;

import com.pizzamanagement.service.PizzaServiceImpl;


public class Test {

  public static void main(String[] args) {

        PizzaService service= new PizzaServiceImpl();

                Pizza pizza= new Pizza(111, "OTC", 200, "india");

                //ADD VALUES TO DATABASE

        service.addPizza(pizza);

//              pizza=service.findPizzaByNo(111);

//              System.out.println("pizza no :" +pizza.getPizzaNo());

//              System.out.println("pizza type :"+pizza.getPizzaType());
```

```java
//      System.out.println("pizza price :"+pizza.getPizzaPrice());



        // UPDATE VALUES TO DATABASE

//      pizza.setPizzaType("cheese pizza");

//        pizza.setPizzaNo(222);

//              pizza.setPizzaPrice(300);

//

//              service.updatePizza(pizza);

//

//               pizza=service.findPizzaByNo(111);

//              System.out.println("updated type:"+pizza.PizzaType());

//              System.out.println("updated no:"+pizza.PizzaNo());

//              System.out.println("updated price:"+pizza.PizzaPrice());


            // DELETE

            //service.deletePizza(pizza);

            //System.out.println("end of program");

        }


}
```

****META-INF****

==============

Persistence.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

```xml
<persistence xmlns="http://java.sun.com/xml/ns/persistence"
             xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
             xsi:schemaLocation="http://java.sun.com/xml/ns/persistence
                     http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd"
    version="2.0">

    <persistence-unit name="PIZZA" transaction-type="RESOURCE_LOCAL">

        <provider>org.hibernate.ejb.HibernatePersistence</provider>
        <class>com.pizzamanagement.model.Pizza</class>

        <properties>
        <!-- database properties -->
            <property name="javax.persistence.jdbc.url"
value="jdbc:postgresql://localhost/pizza" />
            <property name="javax.persistence.jdbc.user" value="postgres" />
            <property name="javax.persistence.jdbc.password"
value="Sweety0608@" />
            <property name="javax.persistence.jdbc.driver"
value="org.postgresql.Driver" />

            <!-- hibernate properties -->
            <property name="hibernate.dialect"
value="org.hibernate.dialect.PostgreSQLDialect"/>
            <property name="hibernate.hbm2ddl.auto" value="create"/> <!--
create/update  -->
            <property name="hibernate.show_sql" value="true"/>
        </properties>

    </persistence-unit>

</persistence>
```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Test.java   Pizza.java   JPAUtil.java   PizzaDao.java   PizzaDaoImpl.java   PizzaService.java   PizzaServiceImpl.java   persistence.xml

```java
1  package com.pizzamanagement.ui;
2
3⊖ import com.pizzamanagement.model.Pizza;
4
5
6
7  public class Test {
8⊖     public static void main(String[] args) {
9         PizzaService  service= new PizzaServiceImpl();
10         Pizza pizza= new Pizza(111, "OTC", 200, "india");
11         //ADD VALUES TO DATABASE
12         service.addPizza(pizza);
13 //     pizza=service.findPizzaByNo(111);
14 //     System.out.println("pizza no :" +pizza.getPizzaNo());
15 //     System.out.println("pizza type :"+pizza.getPizzaType());
16 //     System.out.println("pizza price :"+pizza.getPizzaPrice());
17
18
19         // UPDATE VALUES TO DATABASE
20 //     pizza.setPizzaType("cheese pizza");
21 //     pizza.setPizzaNo(222);
22 //     pizza.setPizzaPrice(300);
23 //
24 //     service.updatePizza(pizza);
25 //
26 //      pizza=service.findPizzaByNo(111);
27 //     System.out.println("updated type:"+pizza.PizzaType());
28 //     System.out.println("updated no:"+pizza.PizzaNo());
29 //     System.out.println("updated price:"+pizza.PizzaPrice());
30
```

Problems   @ Javadoc   Declaration   Console ✕

<terminated> Test (3) [Java Application] C:\Users\user\Downloads\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.1.v20201027-0507\jre\bin\javaw.exe (Mar 11, 2022, 5:05:24 PM – 5
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by javassist.util.proxy.SecurityActions (file:/C:/Users/user/Downloads/jpa%20jars-20220308/javassist-3.12.0.GA.jar) to
WARNING: Please consider reporting this to the maintainers of javassist.util.proxy.SecurityActions
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
Hibernate: insert into pizzalyrd (DeliveryAdd, pizzaPrice, pizzaType, pizzaNo) values (?, ?, ?, ?)

Activate Windows
Go to Settings to activate Windows

Search the web and Windows

5:05 PM
3/11/2022