Text

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November. 2022

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POLITEKNIK NEGERI BALI

Materi :   
Dimata QDEP Layer Model

Applying Java : Model-View-Controller Software Architecture

Implementation

of

Object Oriented Programming

as   
Quick Development Pattern

in Software Industry

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# ENTITY :

package com.dimata.myqdep.entity;

import com.dimata.qdep.entity.Entity;

import java.util.Date;

/\*\*

\*

\* @author iketutkartikatanjana

\*/

public class BillMain extends Entity{

private Date billDate = new Date();

private String billNumber = "";

private long cashierId = 0;

private String description="";

/\*\*

\* @return the billDate

\*/

public Date getBillDate() {

return billDate;

}

/\*\*

\* @param billDate the billDate to set

\*/

public void setBillDate(Date billDate) {

this.billDate = billDate;

}

/\*\*

\* @return the billNumber

\*/

public String getBillNumber() {

return billNumber;

}

/\*\*

\* @param billNumber the billNumber to set

\*/

public void setBillNumber(String billNumber) {

this.billNumber = billNumber ==null? "" : billNumber;

}

/\*\*

\* @return the cashierId

\*/

public long getCashierId() {

return cashierId;

}

/\*\*

\* @param cashierId the cashierId to set

\*/

public void setCashierId(long cashierId) {

this.cashierId = cashierId;

}

/\*\*

\* @return the description

\*/

public String getDescription() {

return description;

}

/\*\*

\* @param description the description to set

\*/

public void setDescription(String description) {

this.description = description ==null? "" : description;

}

}

# PERSISTENT:

package com.dimata.myqdep.entity;

import com.dimata.qdep.db.DBException;

import com.dimata.qdep.db.DBHandler;

import com.dimata.qdep.db.DBResultSet;

import com.dimata.qdep.db.I\_DBInterface;

import com.dimata.qdep.db.I\_DBType;

import com.dimata.qdep.entity.Entity;

import com.dimata.qdep.entity.I\_PersintentExc;

import com.dimata.util.lang.I\_Language;

import java.sql.ResultSet;

import java.util.Vector;

/\*\*

\*

\* @author iketutkartikatanjana

\*/

public class PstBillMain extends DBHandler implements I\_DBInterface, I\_DBType, I\_PersintentExc, I\_Language {

public static final String TBL\_BILL\_MAIN = "mq\_bill\_main";

public static final int FLD\_BILL\_MAIN\_ID = 0;

public static final int FLD\_BILL\_DATE = 1;

public static final int FLD\_BILL\_NUMBER = 2;

public static final int FLD\_CASHIER\_ID = 3;

public static final int FLD\_DESCRIPTION = 4;

public static final String[] fieldNames = {

"BILL\_MAIN\_ID",

"BILL\_DATE",

"BILL\_NUMBER",

"CASHIER\_ID",

"DESCRIPTION"

};

public static final int[] fieldTypes = {

TYPE\_LONG + TYPE\_PK + TYPE\_ID,

TYPE\_DATE,

TYPE\_STRING,

TYPE\_LONG + TYPE\_FK,

TYPE\_STRING

};

public PstBillMain() {

}

public PstBillMain(int i) throws DBException {

super(new PstBillMain());

}

public PstBillMain(String sOid) throws DBException {

super(new PstBillMain(0));

if (!locate(sOid)) {

throw new DBException(this, DBException.RECORD\_NOT\_FOUND);

} else {

return;

}

}

public PstBillMain(long lOid) throws DBException {

super(new PstBillMain(0));

String sOid = "0";

try {

sOid = String.valueOf(lOid);

} catch (Exception e) {

throw new DBException(this, DBException.RECORD\_NOT\_FOUND);

}

if (!locate(sOid)) {

throw new DBException(this, DBException.RECORD\_NOT\_FOUND);

} else {

return;

}

}

@Override

public int getFieldSize() {

return fieldNames.length;

}

@Override

public String getTableName() {

return TBL\_BILL\_MAIN;

}

@Override

public String[] getFieldNames() {

return fieldNames; // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

@Override

public int[] getFieldTypes() {

return fieldTypes; // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

@Override

public String getPersistentName() {

return new PstBillMain().getClass().getName(); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

@Override

public long fetchExc(Entity ent) throws Exception {

try {

BillMain billMain = fetchExc(ent.getOID());

return billMain.getOID();

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

}

public static BillMain fetchExc(long oid) throws Exception {

try {

BillMain billMain = new BillMain();

PstBillMain pstBillMain = new PstBillMain(oid);

billMain.setOID(oid);

billMain.setBillDate(pstBillMain.getDate(FLD\_BILL\_DATE));

billMain.setBillNumber(pstBillMain.getString(FLD\_BILL\_NUMBER));

billMain.setDescription(pstBillMain.getString(FLD\_DESCRIPTION));

billMain.setCashierId(pstBillMain.getLong(FLD\_CASHIER\_ID));

return billMain;

} catch (DBException dbe) {

throw dbe;

} catch (Exception e) {

throw e;// new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

}

@Override

public long updateExc(Entity ent) throws Exception {

try {

return updateExc((BillMain) ent);

} catch (Exception e) {

throw e;//new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

}

public long updateExc(BillMain billMain) throws Exception {

try {

PstBillMain pstBillMain = new PstBillMain(billMain.getOID());

pstBillMain.setDate(FLD\_BILL\_DATE, billMain.getBillDate());

pstBillMain.setString(FLD\_BILL\_NUMBER, billMain.getBillNumber());

pstBillMain.setLong(FLD\_CASHIER\_ID, billMain.getCashierId());

pstBillMain.setString(FLD\_DESCRIPTION, billMain.getDescription());

pstBillMain.update();

//billMain.setOID(pstBillMain.getlong(FLD\_BILL\_MAIN\_ID));

} catch (DBException dbe) {

throw dbe;

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

return billMain.getOID(); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

@Override

public long deleteExc(Entity ent) throws Exception {

try {

return deleteExc(ent.getOID());

} catch (DBException dbe) {

throw dbe;

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

}

public static long deleteExc(long oid) throws Exception {

try {

PstBillMain pstBillMain = new PstBillMain(oid);

pstBillMain.delete();

} catch (DBException dbe) {

throw dbe;

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

return oid;

}

@Override

public long insertExc(Entity ent) throws Exception {

try {

return insertExc((BillMain) ent);

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

}

public long insertExc(BillMain billMain) throws Exception {

try {

PstBillMain pstBillMain = new PstBillMain(0);

pstBillMain.setDate(FLD\_BILL\_DATE, billMain.getBillDate());

pstBillMain.setString(FLD\_BILL\_NUMBER, billMain.getBillNumber());

pstBillMain.setLong(FLD\_CASHIER\_ID, billMain.getCashierId());

pstBillMain.setString(FLD\_DESCRIPTION, billMain.getDescription());

pstBillMain.insert();

billMain.setOID(pstBillMain.getlong(FLD\_BILL\_MAIN\_ID));

} catch (DBException dbe) {

throw dbe;

} catch (Exception e) {

throw new DBException(new PstBillMain(0), DBException.UNKNOWN);

}

return billMain.getOID(); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

public static Vector list(int limitStart, int recordToGet, String whereClause, String order) {

Vector lists = new Vector();

DBResultSet dbrs = null;

try {

String sql = "SELECT \* FROM " + TBL\_BILL\_MAIN;

if (whereClause != null && whereClause.length() > 0) {

sql = sql + " WHERE " + whereClause;

}

if (order != null && order.length() > 0) {

sql = sql + " ORDER BY " + order;

}

if (limitStart == 0 && recordToGet == 0) {

sql = sql + "";

} else {

sql = sql + " LIMIT " + limitStart + "," + recordToGet;

}

dbrs = DBHandler.execQueryResult(sql);

ResultSet rs = dbrs.getResultSet();

while (rs.next()) {

BillMain billMain = new BillMain();

resultToObject(rs, billMain);

lists.add(billMain);

}

rs.close();

return lists;

} catch (Exception e) {

System.out.println(e);

} finally {

DBResultSet.close(dbrs);

}

return new Vector();

}

public static void resultToObject(ResultSet rs, BillMain billMain) {

try {

billMain.setOID(rs.getLong(PstBillMain.fieldNames[PstBillMain.FLD\_BILL\_MAIN\_ID]));

billMain.setCashierId(rs.getLong(PstBillMain.fieldNames[PstBillMain.FLD\_CASHIER\_ID]));

billMain.setBillDate(rs.getDate(PstBillMain.fieldNames[PstBillMain.FLD\_BILL\_DATE]));

billMain.setBillNumber(rs.getString(PstBillMain.fieldNames[PstBillMain.FLD\_BILL\_NUMBER]));

billMain.setDescription(rs.getString(PstBillMain.fieldNames[PstBillMain.FLD\_DESCRIPTION]));

} catch (Exception e) {

System.out.println("exception 123 : " + e.toString());

}

}

}