Text

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PRAKTISI MENGAJAR

POLITEKNIK NEGERI BALI

Materi :   
Dimata QDEP Layer View

Applying Java : Model-View-Controller Software Architecture

Implementation

of

Object Oriented Programming

as   
Quick Development Pattern

in Software Industry

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PT Dimata Sora Jayate

www.dimata.com

# Form Class :

package com.dimata.myqdep.form;

/\*\*

\*

\* @author iketutkartikatanjana

\*/

// import javax

import com.dimata.myqdep.entity.BillMain;

import javax.servlet.\*;

import javax.servlet.http.\*;

// import qdep

import com.dimata.qdep.form.FRMHandler;

import com.dimata.qdep.form.I\_FRMInterface;

import com.dimata.qdep.form.I\_FRMType;

public class FrmBillMain extends FRMHandler implements I\_FRMInterface, I\_FRMType

{

public static final String FRM\_BILLMAIN = "BILLMAIN";

public static final int FRM\_BILL\_DATE = 0;

public static final int FRM\_BILL\_NUMBER = 1;

public static final int FRM\_BILL\_MAIN\_ID = 2;

public static final int FRM\_BILL\_CASHIER\_ID = 3;

public static final int FRM\_BILL\_DESCRIPTION = 4;

public static String[] fieldNames = {

"BILL\_DATE",

"BILL\_NUMBER",

"BILL\_MAIN\_ID",

"BILL\_CASHIER\_ID",

"BILL\_DESCRIPTION",

};

public static int[] fieldTypes = {

TYPE\_STRING + ENTRY\_REQUIRED,

TYPE\_INT+ ENTRY\_REQUIRED,

TYPE\_LONG,

TYPE\_LONG,

TYPE\_STRING

};

private BillMain billMain;

public FrmBillMain(BillMain billMain){

this.billMain = billMain;

}

public FrmBillMain(HttpServletRequest request, BillMain billMain) {

super(new FrmBillMain(billMain), request);

this.billMain = billMain;

}

public String getFormName() { return FRM\_BILLMAIN; }

public int[] getFieldTypes() { return fieldTypes; }

public String[] getFieldNames() { return fieldNames; }

public int getFieldSize() { return fieldNames.length; }

public BillMain getEntityObject(){ return billMain; }

public void requestEntityObject(BillMain billMain){

try{

this.requestParam();

billMain.setBillDate(this.getDate(FRM\_BILL\_DATE, "dd-MMM-yyyy HH:mm:ss"));

billMain.setBillNumber(this.getString(FRM\_BILL\_NUMBER));

billMain.setOID(this.getLong(FRM\_BILL\_MAIN\_ID));

billMain.setCashierId(this.getLong(FRM\_BILL\_CASHIER\_ID));

billMain.setDescription(this.getString(FRM\_BILL\_DESCRIPTION));

this.billMain = billMain;

}catch(Exception e) {

billMain = new BillMain();

}

}

}

# Java Server Page ( JSP ) – index.jsp

<%--

Document : index

Created on : Oct 31, 2022, 1:12:34 PM

Author : iketutkartikatanjana

--%>

<%@page import="com.dimata.util.Command"%>

<%@page import="com.dimata.myqdep.form.FrmBillMain"%>

<%@page import="com.dimata.myqdep.entity.BillMain"%>

<%@page import="com.dimata.myqdep.entity.PstBillMain"%>

<%@page import="java.util.Vector"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html lang="en">

<head>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Home Page</title>

</head>

<body>

<h1>Welcome to Dimata QDEP Project Sample</h1>

<h2>Bill List</h2>

<%

Vector vBill = PstBillMain.list(0,50,"",PstBillMain.fieldNames[PstBillMain.FLD\_BILL\_DATE] );

%>

<table class="table table-striped table-hover">

<thead>

<tr>

<th scope="col">Number</td>

<th scope="col">Date</td>

<th scope="col">Description</td>

<th scope="col">Action</td>

</tr>

</thead>

<tbody>

<%

if(vBill!=null || vBill.size()>0){

BillMain billMain=null;

for(int idx =0; idx< vBill.size() ; idx++){

billMain = (BillMain) vBill.get(idx);

%>

<tr>

<th scope="row"><%=billMain.getBillNumber() %></td>

<td><%=billMain.getBillDate() %></td>

<td><%=billMain.getDescription() %></td>

<td><a href='billmain.jsp?<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_MAIN\_ID] %>=<%=billMain.getOID()%>'>Open</a></td>

</tr>

<%

}

} %>

</tbody>

</table>

<p><a href='billmain.jsp?command=<%=Command.ADD %>'>Add Bill</a></p>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

</body>

</html>

# Java Server Page ( JSP ) – billmain.jsp

<%--

Document : billmain

Created on : Oct 31, 2022, 1:23:46 PM

Author : iketutkartikatanjana

--%>

<%@page import="com.dimata.util.Formater"%>

<%@page import="com.dimata.myqdep.form.FrmBillMain"%>

<%@page import="com.dimata.util.Command"%>

<%@page import="com.dimata.myqdep.entity.BillMain"%>

<%@page import="com.dimata.myqdep.form.CtrlBillMain"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Bill</title>

<script lang="javascript">

function save() {

document.<%=FrmBillMain.FRM\_BILLMAIN%>.command.value = <%=Command.SAVE%>;

document.<%=FrmBillMain.FRM\_BILLMAIN%>.submit();

}

function askDelete() {

document.<%=FrmBillMain.FRM\_BILLMAIN%>.command.value = <%=Command.ASK%>;

document.<%=FrmBillMain.FRM\_BILLMAIN%>.submit();

}

function confirmDelete() {

document.<%=FrmBillMain.FRM\_BILLMAIN%>.command.value = <%=Command.DELETE%>;

document.<%=FrmBillMain.FRM\_BILLMAIN%>.submit();

}

</script>

</head>

<body>

<h1>Bill Main</h1>

<%

CtrlBillMain ctrlBillMain = new CtrlBillMain(request);

FrmBillMain frmBillMain = ctrlBillMain.getForm();

int command = frmBillMain.getParamInt("command");

long oidBillMain = frmBillMain.getParamLong(FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_MAIN\_ID]);;

int result = ctrlBillMain.action(command, oidBillMain);

BillMain billMain = ctrlBillMain.getBillMain();

%>

<form name="<%=FrmBillMain.FRM\_BILLMAIN%>" method="get">

<input type="hidden" value="0" name="command">

<input type="hidden" value="<%=billMain.getOID()%>" name="<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_MAIN\_ID]%>">

<p><%=ctrlBillMain.getMessage()%></p>

<br>

<% if (command != Command.DELETE || (command == Command.DELETE && result != CtrlBillMain.RSLT\_OK) ) {%>

<table>

<tr>

<td>Number</td>

<td>:</td>

<td><input name='<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_NUMBER]%>' value="<%=billMain.getBillNumber()%>" type="text" <%=(billMain.exists() ? "readonly" : "")%> /> </td>

</tr>

<tr>

<td>Date</td>

<td>:</td>

<td><input name='<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_DATE]%>' value="<%=Formater.formatDate(billMain.getBillDate(), "dd-MMM-yyyy HH:mm:ss")%>" type="datetime" readonly /></td>

</tr>

<tr>

<td>Cashier</td>

<td>:</td>

<td><input name='<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_CASHIER\_ID]%>' value="<%=billMain.getCashierId()%>" type="text" <%=(billMain.exists() ? "readonly" : "")%> /></td>

</tr>

<tr>

<td>Description</td>

<td>:</td>

<td><input name='<%=FrmBillMain.fieldNames[FrmBillMain.FRM\_BILL\_DESCRIPTION]%>' value="<%=billMain.getDescription()%>" /></td>

</tr>

</table>

<p>

<% if (command != Command.ASK) { %>

<a href="javascript:save();"> Save</a>

<% if (billMain.exists()) { %>

| <a href="javascript:askDelete();"> Delete</a>

<% } %>

<% } else { %>

<a href="javascript:confirmDelete();"> Confirm delete</a>

<%}%>

<% } %>

| <a href="index.jsp">Back</a></p>

</form>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

</body>

</html>