<JSTORM>

JSP - 3

Document Information

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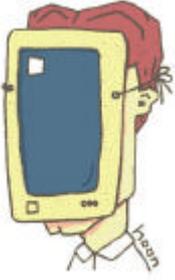
	Signature	date
	Signature	date

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Revision History

Revision	Date	Author	Description of change

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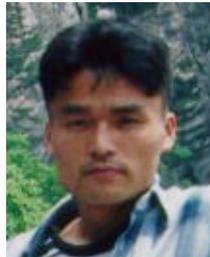
JSP
(9   )

(compert@unitel.co.kr)

                    -                           ([http://www.uniplaza-
.co.kr/](http://www.uniplaza-.co.kr/))

                                                                     1

JSP   !   .

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(DB)   .   DB   PC

                    MySql   .   ?

MySql

        MySql   (http://www.mysql.com/downloads/)   3.23

                              .   C:\mysql   .

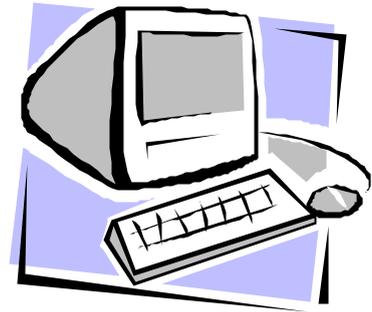   MySql   JDBC   .   z

                                                        .   mm.mysql.jdbc-1.2c

                              jar   (mysql_comp.jar, mysql_uncomp.jar)

                    <JDK   >\jre\lib\ext   .

                              .

                              .   classpath

                              .   jar   classpath

                \jre\lib\ext   jar

        .   JDK   \jre\lib\ext   classpath   .

                                                                                          .   !

        MySql DB   . C:\mysql\bin   mysqld.exe

                    .

<   1> MySqlTest.java

```
import java.sql.*;
public class MySqlTest
{
    public static void main(String[] args) {
            Connection con;
            try {
                    Class.forName("org.gjt.mm.mysql.Driver");
                    con =
DriverManager.getConnection("jdbc:mysql://127.0.0.1/test", "root", "");
                    System.out.println("Success!");
            } catch (SQLException ex) {
                    System.out.println("SQLException : " + ex);
            } catch (Exception ex) {
                    System.out.println("Exception : " + ex);
            }
    }
}
```

MySqlTest.java   . Success!   ?
org.gjt.mm.mysql.Driver   MySql   JDBC   jdbc:mysql://127.0.0.1/test
   test   MySql   DB   .

                          .   MySql   C:\mysql\bin   .
         mysql   . mysql.exe   SQL
               DB   .
    .
    ✍✍   : jrun
    ✍✍   : MyGuestBook
    ✍✍ MyGuestBook
                          <   1>   DB

Sql		
Name	CHAR(20)	
Email	CHAR(30)	Email
Content	CHAR(200)	
Ip	CHAR(15)	ip
Regdate	DATE	
Regtime	TIME	

    ✐✐   SQL

        ✐✐ jrun   SQL   : create database jrun;

        ✐✐ jrun   : use jrun;

        ✐✐ MyGuestBook   SQL

```
Create table MyGuestBook (
        name CHAR(20),
        email CHAR(30),
        content CHAR(200),
        ip CHAR(15),
        regdate DATE,
        regtime TIME
);
```
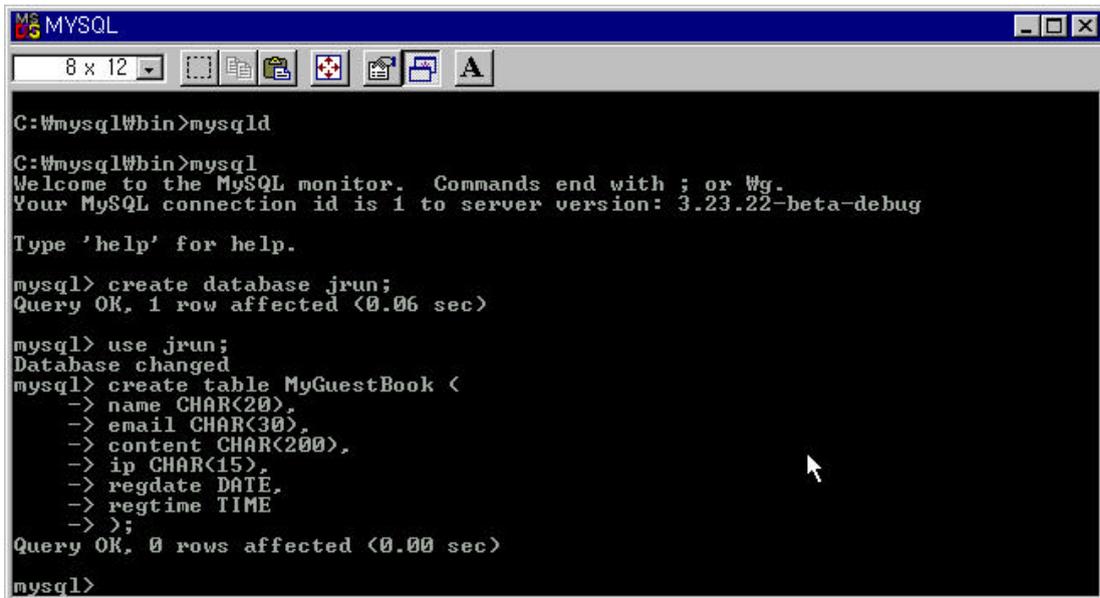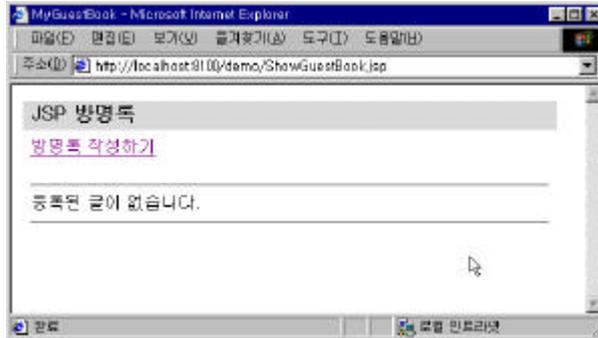
                                 <   1> SQL

             DB   .

MyGuestBook

                        ,   .

                                   .

      MyGuestBook   .

<   2>   (ShowGuestBook.jsp)
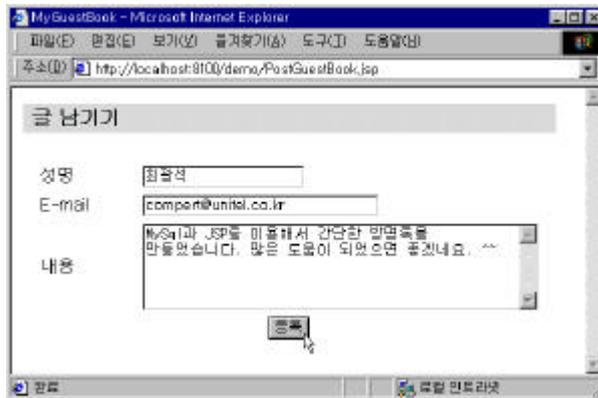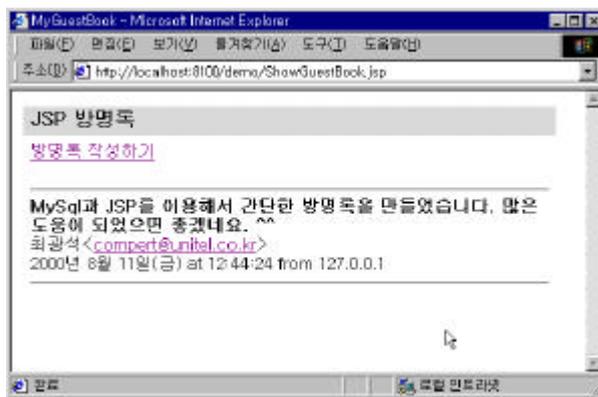

<   3>   (PostGuestBook.jsp)

<   4>   (ShowGuestBook.jsp)

<   2>   MyGuestBook
.   <   2>   "   "   <   3>
.   , Email,   "   "   <
4>   .   MyGuestBook
.

MyGuestBook

<   2> MyGuestBook

	MyGuestBook.java	MyGuestBook	<demo-app> \Web-inf\classes\guestbook	guestbook
	MyGuestBookManager.java	DB	<demo-app> \Web-inf\classes\guestbook	guestbook
	Encoder.java		<demo-app>\Web-inf\classes\	
	LogMaker.java		<demo-app>\Web-inf\classes\	
JSP	ShowGuestBook.jsp		<demo-app>	
	PostGuestBook.jsp		<demo-app>	
	ProcessGuestBook.jsp		<demo-app>	
	PostGuestBook.js		<demo-app>	PostGuestBook.jsp

<demo-app>   <JRun   >\servers\default\demo-app\   .

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.
.

<   2> MyGuestBook.java

```java
package guestbook;

public class MyGuestBook{
    private String name = "";
    private String email = "";
    private String content = "";
    private String ip = "";
    private String regdate = "";
    private String regtime = "";

    public MyGuestBook(){
    }
```

```
// set
public void setName(String str)        { name        = str;  }
public void setEmail(String str)       { email       = str; }
public void setContent (String str) { content        = str; }
public void setIp(String str)          { ip           = str;  }
public void setRegdate(String str) { regdate        = str; }
public void setRegtime(String str) { regtime        = str; }

// get
public String getName()                { return name;            }
public String getEmail()               { return email;           }
public String getContent()        { return content;        }
public String getIp()                  { return ip;              }
public String getRegdate()        { return regdate;       }
public String getRegtime()        { return regtime;       }
}
```

.<   1> <   1>   MyGuestBook
                              set   get
          .   String
    .   regdate, regtime   String   .
                                       JSP

  String   .

<   3> MyGuestBookManager.java


```
package guestbook;

import java.sql.*;
import java.text.*;
import java.util.*;
import LogMaker;

public class MyGuestBookManager {
    // DB
    private final String JDBC_DRIVER = "org.gjt.mm.mysql.Driver";
    private final String JDBC_URL = "jdbc:mysql://127.0.0.1/jrun";
    //      ,
    private final SimpleDateFormat SDF_DATE = new SimpleDateFormat("yyyy'
```

```java
    ' M'   ' d'   '(E)");
    private final SimpleDateFormat SDF_TIME = new
SimpleDateFormat("H:mm:ss");

 // MyGuestBook
   private Vector vMyGuestBookList = new Vector();

 // DB
   private ResultSet resultSet;
   private Statement         stmt;
   private Connection        con;
   private String            strQuery = "";

   //              DB                   .
   public MyGuestBookManager() {
           try {
                   Class.forName(JDBC_DRIVER);
                   con = DriverManager.getConnection(JDBC_URL, "root",
"");
           } catch (SQLException ex) {

   LogMaker.println("MyGuestBookManager","MyGuestBookManager()
SQLException : " + ex);
           } catch (Exception ex) {

   LogMaker.println("MyGuestBookManager","MyGuestBookManager()
Exception : " + ex);
           }
   }

   // MyGuestBook                                  Vector          .
   public void readMyGuestBook() {
           vMyGuestBookList.removeAllElements();
           try {
                   stmt = con.createStatement();

                   strQuery = "select * from MyGuestBook order by
regdate, regtime desc";
                   resultSet = stmt.executeQuery(strQuery);
                   while (resultSet.next()) {
                           MyGuestBook tempMyGuestBook = new
```

```java
                    MyGuestBook();

        tempMyGuestBook.setName(resultSet.getString("name"));

        tempMyGuestBook.setEmail(resultSet.getString("email"));

        tempMyGuestBook.setContent(resultSet.getString("content"));

        tempMyGuestBook.setIp(resultSet.getString("ip"));
                                    //        ,
                                    String tempDateString, tempTimeString;
                                    try {
                                            tempDateString =
SDF_DATE.format(resultSet.getDate("regdate"));
                                            tempTimeString =
SDF_TIME.format(resultSet.getTime("regtime"));
                                    } catch (NullPointerException ex) {
                                            tempDateString = "";
                                            tempTimeString = "";
                                    }

        tempMyGuestBook.setRegdate(tempDateString);

        tempMyGuestBook.setRegtime(tempTimeString);
                                    // Vector

        vMyGuestBookList.addElement(tempMyGuestBook);
                        }

                        resultSet.close();
                        stmt.close();
                }
                catch (SQLException ex) {

        LogMaker.println("MyGuestBookManager","readMyGuestBook()
SQLException : " + ex);
                }
        }

        // MyGuestBook                                          .
        public void postMyGuestBook(MyGuestBook _myGuestBook) {
```

```
                try {
                        stmt = con.createStatement();

                        java.sql.Date tempRegdate = new java.sql.Date(new
java.util.Date().getTime());
                        strQuery = "insert into MyGuestBook " +
                                "(name, email, content, ip, regdate, regtime) " +
                                "values('" + _myGuestBook.getName() + "', '" +
_myGuestBook.getEmail() + "', '" +
                                _myGuestBook.getContent() + "', '" +
_myGuestBook.getIp() + "', NOW(), NOW())";
                        stmt.executeQuery(strQuery);

                        stmt.close();
                }
                catch (SQLException ex) {

        LogMaker.println("MyGuestBookManager","postMyGuestBook()
SQLException : " + ex);
                }
        }

        // MyGuestBook                        Vector            .
        public Vector getMyGuestBookList()            {
                return vMyGuestBookList;
        }

        //                                      .
        public void closeConnection() {
                try {
                        con.close();
                } catch (SQLException ex) {

        LogMaker.println("MyGuestBookManager","closeConnection()
SQLException : " + ex);
                }
        }
}
```

?   MyGuestBook   DB
                                                                .

<   3> MyGuestBookManager.java

MyGuestBookManager()	DB	
readMyGuestBook()	MyGuestBook (select) MyGuestBook Vector vMyGuestBookList	
postMyGuestBook()	MyGuestBook MyGuestBook (insert)	
getMyGuestBookList()	vMyGuestBookList	
closeConnection()	DB	

<   3>   MyGuestBookManager   .

                                 final   JDBC_DRIVER, JDBC_URL

                                            .   JDBC_URL   "jrun"

                       .   SimpleDateFormat

                       .   Java2 API(http://java.sun.com/j2se/1.3/docs/api/)

                                                                        .

<   4> Encoder.java


```
public class Encoder
{
    public static String toKor(String str) {
            if (str == null) return "";
            try {
                    str = new String(str.getBytes("8859_1"), "KSC5601");
            } catch (Exception ex) {
                    System.out.println("Exception : " + ex);
            }
            return str;
    }
}
```


                                          Encoder
                                 .   .

              ProcessGuestBook.jsp   . toKor()   static

                                                                   .

<   5> LogMaker.java

```java
import java.io.*;

public class LogMaker{
    public static void println(String filename, String log){
            try{
                    FileWriter fw = new FileWriter(filename+".log", true);
                    fw.write(log + "\n");
                    fw.flush();
                    fw.close();
            } catch (Exception ex) {
            }
    }
}
```

JSP   .
System.out.println()   JSP
                            .   LogMaker   .
            LogMaker   import   LogMaker.println("   ", "   ");
                    .<   3>   SQL
                                            .   JSP   Log   <JRun
            >\servers\default   Java   LogMaker.class
                    . println()   <   4>   toKor()
static   .

JSP

<   6> ShowGuestBook.jsp

```jsp
<%@ page contentType="text/html; charset=euc-kr" %>
<jsp:useBean id="myGuestBookManager" scope="page"
class="guestbook.MyGuestBookManager" />
<%@ page import="guestbook.MyGuestBook" %>
<%@ page import="java.util.*" %>
<%
   // MyGuestBook
   myGuestBookManager.readMyGuestBook();
   //                          Vector
   Vector vMyGuestBookList =
myGuestBookManager.getMyGuestBookList();
```

```jsp
		//
		myGuestBookManager.closeConnection();
%>
<html>
<head>
	<title>MyGuestBook</title>
</head>
<body>
<table width=500 cellspacing=0 cellpadding=3>
	<tr><td bgcolor=#dddddd> <font size=4><b>JSP
</b></font></td></tr>
</table>

<table width=500 border=0 cellspacing=0 cellpadding= 7>
	<tr>
		<td><a href="PostGuestBook.jsp">			</a><br>
		<br><hr>
<%		if (vMyGuestBookList.isEmpty()) {%>
					.<hr>
<%		} else {
		for (int i = 0; i < vMyGuestBookList.size(); i++) {
			MyGuestBook tempMyGuestBook =
(MyGuestBook)vMyGuestBookList.elementAt(i);
			String tempEmail = tempMyGuestBook.getEmail();
%>
			<b><%=
tempMyGuestBook.getContent() %></b><br>
			<%= tempMyGuestBook.getName() %>&lt;<a
href="mailto:<%= tempEmail %>"><%= tempEmail %></a>&gt;<br>
			<%= tempMyGuestBook.getRegdate() %> at <%=
tempMyGuestBook.getRegtime() %>
			from <%= tempMyGuestBook.getIp() %><hr>
<%			}
	}
%>
		</td>
	</tr>
</table>

</body>
</html>
```

<   2> <   4>   .   <   3>
          MyGuestBookManager.   .   D
B   .
          for   Vector
                    .

<   7> PostGuestBook.jsp

```
<%@ page contentType="text/html; charset=euc-kr" %>
<html>
<head>
   <title>MyGuestBook</title>
<script src='PostGuestBook.js'></script>
</head>
<body>
<table width=500 cellspacing=0 cellpadding=3>
   <tr><td bgcolor=#dddddd> <font size=4><b>
</b></font></td></tr>
</table>


<form name=PostGuestBook method=post
action="javascript:checkInputs()">
<table width=500 border=0 cellspacing=0 cellpadding=7>
   <tr><td align=center>
          <table border=0>
                    <tr>
                          <td width=20%>    </td>
                          <td width=80%><input type=text
name=name size=20 maxlength=20></td>
                    </tr>
                    <tr>
                          <td>E-mail</td>
                          <td><input type=text name=email size=30
maxlength=30></td>
                    </tr>
                    <tr>
                          <td>    </td>
                          <td><textarea name=content rows=5
cols=50></textarea></td>
                    </tr>
                    <tr><td colspan=2 align=center><input type=submit
```

```
value="     "></td></tr>
            </table>
    </td></tr>
</table>
</form>
</body>
</html>
```

<   3>   html
       .   JSP   .
                            PostGuestBook.js   .
    <form>   action   checkInputs()
                    .

                    <   8> ProcessGuestBook.jsp

```
<%@ page contentType="text/html; charset=euc-kr" %>
<jsp:useBean id="myGuestBook" scope="page"
class="guestbook.MyGuestBook">
    <jsp:setProperty name="myGuestBook" property="*" />
</jsp:useBean>
<jsp:useBean id="myGuestBookManager" scope="page"
class="guestbook.MyGuestBookManager" />
<%
    //
    myGuestBook.setName(Encoder.toKor(request.getParameter("name")));
    myGuestBook.setContent(Encoder.toKor(request.getParameter("content")
));
    // IP
    myGuestBook.setIp(request.getRemoteAddr());
    //
    myGuestBookManager.postMyGuestBook(myGuestBook);
    //
    myGuestBookManager.closeConnection();
    response.sendRedirect("ShowGuestBook.jsp");
%>
```

    <   7>   MyGuestBook
IP   MyGuestBookManager   DB
    . JSP   .
                            response.sendRedirect()
    .

<   9> PostGuestBook.js

```
function checkInputs() {
    if (document.PostGuestBook.name.value == '') {
            alert('                    .');
            document.PostGuestBook.name.focus();
            return;
    }
    if (!checkEmail(document.PostGuestBook.email.value)) {
            document.PostGuestBook.email.focus();
            return;
    }
    if (document.PostGuestBook.content.value.length > 200) {
            alert('        200                     .');
            document.PostGuestBook.content.focus();
            return;
    }
    document.PostGuestBook.action = 'ProcessGuestBook.jsp';
    document.PostGuestBook.submit();
}

function checkEmail(str) {
    if (str == '') {
            alert('E-mail                     .');
            return false;
    }

    var atPos = str.indexOf('@');
    var atLastPos = str.lastIndexOf('@');
    var dotPos = str.indexOf('.');
    var spacePos = str.indexOf(' ');
    var commaPos = str.indexOf(',');
    var eMailSize = str.length;
    if (atPos > 1 && atPos == atLastPos && dotPos > 3 &&
        spacePos == -1 && commaPos == -1 && atPos + 1 < dotPos &&
        dotPos + 1 < eMailSize);
    else {
        alert('E-mail                              .\n\r                 .');
            return false;
    }
    return true;
}
```

<   7>

. <   7> <form>   `PostGuestBook`   document

<input>   . checkEmail()

Email

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. JSP

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