웹 서버 프로그래밍 Assign #5

(과제명 : DB 연동 이메일 연락처 만들기)

학번: 2019305059

학과: 컴퓨터공학과

성명 : 이 현 수

제출일자 : 2022. 5. 6

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 (본인자연)

그림 ① <index.JSP>

```
/* 학번 : 2019305059
/* 억년 : 2013303039
/* 성명 : 이현수
/* 작성일 : 2022. 5. 6
/* 파일명 : list_contact_all.JSP
/* 내용 : 주소록 리스트 출력
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
pageEncoding="UTF-8" import="java.util.*, jspbook.contact.*'%>
<!DOCTYPE HTML>
<html>
<head>
rel="stylesheet" href="style.css" type="text/css" media="screen" />
document.location.href="contact_control.jsp?action=edit&ct_id="+ab_id+"&upasswd=
'+"1234"//pwd
   function delcheck(id) {
result = confirm("정말로 삭제하시겠습니까 ?");
      if(result == true){
document.location.href="update_contact_form.jsp?action=delete\&ct_id="+id+"\&upasswd="+"1234"//pwd
//document.location.href="contact_control.jsp?action=delete&ct_id="+id+"&upasswd
 "+"1234";
      else
         return
</script>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>주소록:목록화면</title>
</head>
<jsp:useBean id="datas" scope="request" class="java.util.ArrayList" />
```

```
<body>
<div id="header">
<h2>2019305059 이현수</h2>
</div>
<br>
<button class="add-student-button" type="button"</pre>
onclick="location.href='add_contact_form.jsp'">추가하기</button>
    first name
        last name
        email
      ·
<%--р.189~191 --%>
        for(Contact ab : (ArrayList<Contact>)datas) {
      %>
        <%=ab.getFirst_name() %>
        <a href="javascript:delcheck(<%=ab.getCt_id()%>)"\delete</a>
        <%
        }
       %>
    </div>
</body>
</html>
```

그림 ① <list_contact_all.JSP>

```
<div id="wrapper">
<div id="header">
<h2>2019305059 이현수</h2>
</div>
<div id="container">
<h3>contact 추가</h3>
<div id="content">
<form name=form1 method=post action=contact_control.jsp>
<input type=hidden name="action" value="insert">
<label for="e">email:
   <input type="email" name="email" id="e" ></label>
<input class="save" type=submit value="저장">
</form>
<br>
<br><br><br>>
<br>
<a href=contact_control.jsp?action=list>목록으로</a>
</div>
</div>
</div>
</body>
</html>
```

그림 ① <add_contact_form.JSP>

```
String action = request.getParameter("action");
if(action.equals("delete")){
String id = request.getParameter("ct_id");
String pwd = request.getParameter("upasswd");
out.println(String.format("<script>delcheck(%s)</script>", id));
%>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>주소록:수정화면</title>
</head>
<jsp:useBean id="ab" scope="request" class="jspbook.contact.Contact" />
<body>
<div id="wrapper">
<div id="header">
<h2><%=ab.getFirst_name() %><%=ab.getLast_name() %>_Email_<%=ab.getEmail()
%></h2>
</div>
<div id="container">
<h3>정보 갱신</h3>
<div id="content">
<form name=form1 method=post action=contact_control.jsp>
<input type=hidden name="ct_id" value="<%=ab.getCt_id()%>">
<input type=hidden name="action" value="update">
<label for="n">first name:
    <input type="text" name="first_name" id="n" value="<%=ab.getFirst_name()</pre>
<label for="e">email:
    <input type="email" name="email" id="e" value="<%=ab.getEmail()</pre>
%> "></label>
    <input class="save" type=submit value="저장">
  </form>
<br>
<br><br><br>>
<br>
<a href=contact_control.jsp?action=list>Back to List</a>
</div>
</div>
</div>
</body>
</html>
```

```
/***********************************
.
/* 학번 : 2019305059
/* 역년 : 2019303039
/* 성명 : 이현수
/* 작성일 : 2022. 5. 6
/* 파일명 : contact_control.JSP
/* 내용 : controller
<%@ page language="java" contentType="text/html: charset=utf-8"
    pageEncoding="utf-8" import="jspbook.contact.*, java.util.*"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<% request.setCharacterEncoding("utf-8"); %>
<jsp:useBean id="ab" class="jspbook.contact.ContactBean"/>
<jsp:useBean id="addrbook" class="jspbook.contact.Contact"/>
<jsp:setProperty name="addrbook" property="*"/>
 // 컨트롤러 요청 파라미터
String action = request.getParameter("action");
// 파라미터에 따른 요청 처리
// 주소록 목록 요청인 경우
if(action.equals("list")) {
ArrayList<br/>
Contact> datas = ab.getDBList();<br/>
request.setAttribute("datas", datas);<br/>
pageContext.forward("list_contact_all.jsp");
// 주소록 등록 요청인 경우
else if(action.equals("insert")) {
if(ab.insertDB(addrbook)) {
response.sendRedirect("contact_control.jsp?action=list");
else
throw new Exception("DB 입력오류");
,
// 주소록 수정 페이지 요청인 경우
else if(action.equals("edit")) {
Contact abook = ab.getDB(addrbook.getCt_id()); if(!request.getParameter("upasswd").equals("1234")) { out.println("<script>alert('비밀번호가 틀렸습니다.!!');history.go(-1);</script>");
request.setAttribute("ab",abook);
pageContext.forward("update_contact_form.jsp");
// 주소록 수정 등록 요청인 경우 else if(action.equals("update")) {
if(ab.updateDB(addrbook)) {
response.sendRedirect("contact_control.jsp?action=list");
else
throw new Exception("DB 갱신오류");
// 주소록 삭제 요청인 경우
else if(action.equals("delete")) {
if(ab.deleteDB(addrbook.getCt_id())) {
response.sendRedirect("contact_control.jsp?action=list");
throw new Exception("DB 삭제 오류");
else {
```

```
out.println("<script>alert('action 파라미터를 확인해 주세요!!!')</script>");
}
%>
```

그림 ① <contact_control.JSP>

```
package jspbook.contact;
public class Contact {
private int ct_id
private String first_name
private String last_name
private String email
public int getCt_id() {
return ct_id
public void setCt_id(int ct_id) {
this.ct_id = ct_id
public String getFirst_name() {
return first_name
public void setFirst_name(String first_name) {
this.first_name = first_name
public String getLast_name() {
return last_name
public void setLast_name(String last_name) {
this.last_name = last_name
public String getEmail() {
return email
public void setEmail(String email) {
this.email = email
```

그림 ① <Contact.java>

```
package jspbook.contact;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException
import java.util.ArrayList;

public class ContactBean {

Connection conn = null
PreparedStatement pstmt = null

/* MySQL 연결정보 */
String jdbc_driver = "com.mysql.jdbc.Driver"
```

```
String jdbc_url = "jdbc:mysql://127.0.0.1:3306/contact_tracker"
// DB연결 메서드
void connect() {
trv {
Class. for Name (jdbc_driver);
conn = DriverManager.getConnection(jdbc_url,"jspbook","1234");
} catch (Exception e) {
e.printStackTrace();
void disconnect() {
if(pstmt != null) \( \){
try {
pstmt.close();
catch (SQLException e) {
e.printStackTrace();
if(conn != null) {
try {
conn.close();
} catch (SQLException e) {
e.printStackTrace();
// 수정된 주소록 내용 갱신을 위한 메서드
public boolean updateDB(Contact addrbook) {
connect();
String sql ="update contact set first_name=?, last_name=?, email=? where id=?"
pstmt = conn.prepareStatement(sql);
pstmt.setString(1,addrbook.getFirst_name());
pstmt.setString(2,addrbook.getLast_name());
pstmt.setString(3, addrbook.getEmail());
pstmt.setInt(4,addrbook.getCt_id());
pstmt.executeUpdate();
} catch (SQLException e) {
e.printStackTrace();
return false
finally {
disconnect();
return true
// 특정 주소록 게시글 삭제 메서드
public boolean deleteDB(int gb_id) {
connect();
String sql ="delete from contact where id=?"
pstmt = conn.prepareStatement(sql);
pstmt.setInt(1,gb_id);
pstmt.executeUpdate();
 catch (SQLException e) {
```

```
e.printStackTrace();
return false
finally {
disconnect();
return true
// 신규 주소록 메시지 추가 메서드
public boolean insertDB(Contact addrbook) {
// sql 문자열 , gb_id 는 자동 등록 되므로 입력하지 않는다.
String sql ="insert into contact(first_name, last_name, email) values(?,?,?)"
pstmt = conn.prepareStatement(sql);
pstmt.setString(1.addrbook.getFirst_name());
pstmt.setString(2,addrbook.getLast_name());
pstmt.setString(3, addrbook.getEmail());
pstmt.executeUpdate();
catch (SQLException e) {
e.printStackTrace();
return false
finally {
disconnect();
return true
// 특정 주소록 게시글 가져오는 메서드 public Contact getDB(int gb_id) {
connect();
String sql = "select * from contact where id=?"
Contact addrbook = new Contact();
System. out. println(gb_id);
pstmt = conn.prepareStatement(sql);
pstmt.setInt(1,gb_id);
ResultSet rs = pstmt.executeQuery();
// 데이터가 하나만 있으므로 rs.next()를 한번만 실행 한다.
rs.next();
addrbook.setCt_id(rs.getInt("id"));
addrbook.setFirst_name(rs.getString("first_name"));
addrbook.setLast_name(rs.getString("last_name"));
addrbook.setEmail(rs.getString("email"));
rs.close();
} catch (SQLException e) {
e.printStackTrace();
finally {
disconnect();
return addrbook
// 전체 주소록 목록을 가져오는 메서드
public ArrayList<Contact> getDBList() {
```

```
connect();
ArrayList<Contact> datas = new ArrayList<Contact>();
String sql = "select * from contact order by id desc"
pstmt = conn.prepareStatement(sql);
ResultSet rs = pstmt.executeQuery(); while(rs.next()) {
Contact addrbook = new Contact();
addrbook.setCt_id(rs.getInt("id"));
addrbook.setFirst_name(rs.getString("first_name"));
addrbook.setLast_name(rs.getString("last_name"));
addrbook.setEmail(rs.getString("email"));
datas.add(addrbook);
rs.close();
} catch (SOLException e) {
e.printStackTrace();
finally {
disconnect();
return datas
```

그림 ① <ContactBean.java>

그림 ① <contact.sql>

그림 ② <Eclipse Capture - index.JSP>

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                                                                            s=sntml>
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5 think rel="stylesheet" href="style.css" type="text/css" media="screen" />
6-<script type="text/joussript">
7  function check(ab.jd) {//ide update 世報日。
8  document.location.href="contact_control.jsp?action=edit&ct_id="+ab_id+"&upasswd="+"1234";//pwd
9 }

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$\mu \text{Deployment Descriptor.contact-leehyeorsu}$

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$\mu \text{Bipbbook.contact}$

$\mu \text{Deployment Library}$

$\mu \text{Contact.Epax}$

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$\mu \text{Contact.Epax}$
                                                                                       function delcheck(id) {
    result = confirm("জন্ত ধ্ৰমান্ধস্ত্ৰন্দ ?");
    if(result == true) {
        document.location.href="update_contact_form.jsp?action=delete&ct_id="+id+"&upasswd="+"1234";//pwd
    }

■ Server Runtime [Apache Tomcat v9.0]
■ Meb App Libraries
■ Web App Libraries

■ build

■ Serc

■ main
          ⇒ java

⇒ webapp
                   add_contact_form.jsp
add_student-style.css
contact_control.jsp
contact.sql
index.jsp
indexisp

⇒ Servers

                                                                                                       for(Contact ab : (ArrayList<Contact>)datas) {
                                                                                               50 </div>
51 </div>
52 </body>
53 </html>
```

그림 ② <Eclipse Capture - list_contact_all.JSP>

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File Edit Source Refactor Navigate Search Project Run Window Help

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⇒ Server Runtime [Apache Tomcat v9.0]

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14-<div id="wrapper">

⇒ Web App Libraries

                                                                                                                                                                                                       15 (div id="header">
16 (div id="header">
17 (h2>2019305059 이번수</h2>
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           > & build
                  ~ ⊜ main
                            > 🌣 java
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                                                                                                                                                                                                       20 <div id="container"
21 <h3>contact 추가</h3>
                                                       add contact form.jsp
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contact_control.jsp
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                                                       index.jsp
                                                       list_contact_all.jsp
                                                         ■ style.css
                                                       a update contact form.isp
                                      META-INF
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                                        > WEB-INF
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35 </nput class="save" type=submit value="形象">
36 </form>
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        🎏 jspbook
          25 midtest leehyeonsu
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                                                                                                                                                                                                         42 </div>
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```

그림 ② <Eclipse Capture - add_contact_form.JSP>

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## Pland | Description | Descr
Project Explorer
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    board-ehs

    contact-leehyeonsu
             $ Deployment Descriptor: contact-leehyeonsu
             6 clink rel="stylesheet" href="add-student-style.css" type="text/css" media="screen" />
7 <link rel="stylesheet" href="style.css" type="text/css" media="screen" />

M. JRE System Library [JavaSE-15]

src/main/java

# jspbook.contact
                                                                                                                                                                      cscript>
function delcheck(id) {
   document.location.href="contact_control.jsp?action=delete&ct_id="+id+"&upasswd="+"1234";

    Ø Contact.java
    Ø ContactBean.java

             M Server Runtime (Apache Tomcat v9.0)
             ■ Web App Libraries
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WEB-INF

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42 <pre>dbr><br/>dbr
42 dbr><br/>dbr
48 ca hrefacontact_control.jsp?action=List>Back to List
49 c/div
50 c/div
51 
52 (body>
53 c/body>
53 c/btml>
```

그림 ② <Eclipse Capture - update_contact_form.JSP>

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→ Secontact-leehveonsu

                                                                      4 (% request.setCharacterEncoding("utf-8"); % 
5 <jsp:useBean id="ab" class="jspbook.contact.ContactBean"/> 
6 <jsp:useBean id="addrbook" class="jspbook.contact.Contact"/> 
7 <jsp:setProperty name="addrbook" property="*"/> 
8-(%
      & Deployment Descriptor: contact-leehyeonsu

⊿ JAX-WS Web Services

⇒ M JRE System Library [JavaSE-15]

→ B src/main/iava

                                                                                  String action = request.getParameter("action");
if(action.equals("list")) {
    ArrayListContact> datas = ab.getDBList();
    request.setAttribute("datas", datas);
    pageContext.forward("list_contact_all.jsp");

→ # jspbook.contact

          O Contact.java

  ○ ContactBean.iava

                                                                        M Server Runtime [Apache Tomcat v9.0]

→ Web App Libraries

   > 👺 build
                                                                                   else if(action.equals("insert")) {
                                                                                        if(ab.insertDB(addrbook)) {
    response.sendRedirect("contact_control.jsp?action=list");
   ∨ ≥ src

→ p main

         ) 🎒 java
         throw new Exception("DB 일찍오류");
            ~ P contact
                   add contact form.isp
                                                                                   else if(action.equals("edit")) {
   Contact abook = ab.getDB(addrbook.getCt_id());
   if(!request.getParameter("upasswd").equals("1234")) {
     out.println("<script>alert('비밀벤토가 플렜습니다.!!');history.go(-1);</script>");
                    add-student-style.css
                    E contact.sql
                   index.jsp
                   list contact all.isp
                                                                                               e {
  request.setAttribute("ab",abook);
  pageContext.forward("update_contact_form.jsp");

■ style.css

                   update_contact_form.jsp
             META-INE
                                                                                  }
// 주소득 수정 등록 요형면 경우
else if(action.equals("update")) {
    if(ab.updateDB(addrbook)) {
        response.sendRedirect("contact_control.jsp?action=list");
}
              > WEB-INF
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                                                                                               else
                                                                                                     throw new Exception("DB 갱신오류");
                                                                                   else if(action.equals("delete")) {
   if(ab.deleteDB(addrbook.getCt_id())) {
     response.sendRedirect("contact_control.jsp?action=list");
}
                                                                                                throw new Exception("DB 삭제 오류");
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53 %
                                                                                   else (
                                                                                         out.println("<script>alert('action 파라미터를 확인해 주세요!!!')</script>");
```

그림 ② <Eclipse Capture - contact_control.JSP>

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      Assign2019305059
board-ehs
                                                                                                                                                                                               3 public class Contact [
      private int ct_id;
private String first_name;
private String last_name;
private String email;
         Deployment Descriptor: contact-leehyeonsu

JAX-WS Web Services
       → JRE System Library [JavaSE-15]

→ Brc/main/java

→ 

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    □ Contact.java

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public void setCt_id(int ct_id) {
    this.ct_id = ct_id;
                             ☑ ContactBean.java
        Server Runtime [Apache Tomcat v9.0]
                                                                                                                                                                                                                    }
public String getFirst_name() {
    return first_name;
               ■ Web App Libraries
         build >
       }
public void setFirst_name(String first_name) {
    this.first_name = first_name;
                      > 🍃 java

→ 📴 webapp
                                                                                                                                                                                                                    }
public String getLast_name() {
    return last_name;

→ p contact

                                                 add_contact_form.jsp
add-student-style.css
                                                                                                                                                                                                                   }
public void setLast_name(String last_name) {
    this.last_name = last_name;
                                                  a contact control isp
                                                 contact.sql
                                                                                                                                                                                                                   public String getEmail() {
    return email;
                                                  public void setEmail(String email) {
   this.email = email;
                                                  update contact form.isp
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```

그림 ② <Eclipse Capture - Contact.java>

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Project Explorer ×
                                                                            1 package jspbook.contact;
  board-ehs
                                                                                    import java.sql.Connection:
                                                                                 31 import java.sql.Connection;
4 import java.sql.PriverManager;
5 import java.sql.PreparedStatement;
6 import java.sql.ResultSet;
7 import java.sql.SQLEXception;
8 import java.util.ArrayList;
b Deployment Descriptor: contact-leehyeonsu
    JAX-WS Web Services

■ JRE System Library [JavaSE-15]

✓ 

Src/main/iava

       public class ContactBean {

Connection conn = null
          □ Contact iava

    ContactBean.java

                                                                                          Connection conn = null;
PreparedStatement pstmt = null;
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    > build
                                                                                          /= mysqt 선명명로 -/
String jdbc_driver = "com.mysql.jdbc.Driver";
String jdbc_url = "jdbc:mysql://127.0.0.1:3306/contact_tracker";
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                                                                                           // DB93 에서
                                                                                           void connect() {
    try {
        Class.forName(jdbc_driver);
}

→ contact

                     add contact form.isp
                     add-student-style.css
                                                                                                        conn = DriverManager.getConnection(jdbc_url,"jspbook","1234");
                     iii contact_control.jsp
                                                                                                 } catch (Exception e) {
    e.printStackTrace();

■ contact.sql

                     index.jsp
                                                                                                }
                                                                                          7
                     list_contact_all.jsp
                     style.css
                                                                                          void disconnect() {
   if(pstmt != null) {
      try {
       pstmt.close();
   }
}
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                     update_contact_form.jsp
               META-INE
               > > WEB-INF
                                                                                                       pstmt.close();
} catch (SQLException e) {
   e.printStackTrace();

≥ i midtest leehveonsu

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Servers
                                                                                                }
if(conn != null) {
    try {
        conn.close();
    } catch (SQLException e) {
        e.printStackTrace();
}
                                                                                                       }
                                                                                                }
                                                                                         }
                                                                                47
b contact-leehyeonsu
                                                                                        public boolean updateDB(Contact addrbook) {
    connect();
                                                                            59 51 53 54 556 57 58 56 61 62 63 64 65 66 77 77 77 78 79 88 12 82 38 44 85 68 77 77 78 81 28 38 48 56 87
   Deployment Descriptor: contact-leehveonsu

⊿ JAX-WS Web Services

                                                                                              String sql ="update contact set first_name=?, last_name=?, email=? where id=?";
   → ■ JRE System Library [JavaSE-15]

✓ Ø src/main/iava

                                                                                              try {
   pstmt = conn.prepareStatement(sql);
   pstmt.setString(1,addrbook.getFirst_name());
   pstmt.setString(2,addrbook.getLast_name());
   pstmt.setString(3,addrbook.getEmail());
   pstmt.setInt(4,addrbook.getCt_id());
   pstmt.setInt(4,addrbook.getCt_id());
}

→ # jspbook.contact

→ 

■ Contact.java

           ☑ ContactBean.java

→ Server Runtime [Apache Tomcat v9.0]

→ Web App Libraries

                                                                                                      pstmt.executeUpdate();
   > 😂 build
                                                                                              } catch (SQLException e) {
    e.printStackTrace();
    return false;

→ Src

      > & java
                                                                                              finally {
    disconnect();
             return true:
                   add_contact_form.jsp
                                                                                        }
                    add-student-style.css
                     iii contact_control.jsp
                                                                                        // 특정 주소록 게시글 삭제 에서드
public boolean deleteDB(int gb_id) {
                    Contact.sql
                    index.jsp
                                                                                               connect();
                    String sql ="delete from contact where id=?";
                    ■ style.css
                    update_contact_form.jsp
                                                                                              try {
   pstmt = conn.prepareStatement(sql);
   pstmt.setInt(1,gb_id);
   pstmt.executeUpdate();
} catch (SQLException e) {
   e.printStackTrace();
   return false;
             META-INE
               ≥ WEB-INF
 ispbook
  amidtest leehveonsu

    Servers

                                                                                              finally {
    disconnect();
                                                                                               return true;
                                                                             88
89
90
                                                                                       }
```

```
☐ W II F 8 T ☐ ② ContactBean.java × ☐ contact.sql
Project Explorer ×
  Massign2019305059
                                                                           92°
93
94
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99
                                                                                       public boolean insertDB(Contact addrbook) {
board-ehs
                                                                                             connect();
// sql 문자열 , gb_id 는 자동 등록 되므로 입력하지 않는다.
- 

contact-leehveonsu
   ha Deployment Descriptor: contact-leehyeonsu
   JAX-WS Web Services
                                                                                             String sql ="insert into contact(first_name, last_name, email) values(?,?,?)";

■ JRE System Library [Java5E-15]

✓ ■ src/main/java

                                                                                                   pstmt = conn.prepareStatement(sql);

→ # jspbook.contact

                                                                                                   pstmt.setString(1,addrbook.getFirst_name());
pstmt.setString(2,addrbook.getLast_name());
pstmt.setString(3,addrbook.getEmail());
          ■ Contact.java

→ ☑ ContactBean.java

                                                                          103
   Server Runtime [Apache Tomcat v9.0]
                                                                                                    pstmt.executeUpdate():
                                                                          103
104
105
106
107
                                                                                            } catch (SQLException e) {
    e.printStackTrace();
    return false;
   ■ Web App Libraries
   > & build
  v ₽ src
                                                                                             finally {
    disconnect();
                                                                          108
                                                                          100
110
111
112
         > 🤛 java

✓ So webapp

                                                                                             return true;

→ contact

                                                                                      7
                                                                          113
114
115
116
                   add_contact_form.jsp
                                                                                       // 로제 조소를 제시금 가져오는 메쉬드
                    add-student-style.css
                                                                                       public Contact getDB(int gb_id) {
                    contact_control.jsp
                                                                                             connect();
                   String sql = "select * from contact where id=?";
Contact addrbook = new Contact();
System.out.println(gb_id);
                   index.isp
                                                                          118
119
120
121
122
123
124
125
                   list contact all.jsp

■ style.css

                   applied update contact form.isp
                                                                                            try {
   pstmt = conn.prepareStatement(sql);
   pstmt.setInt(1,gb_id);
   ResultSet rs = pstmt.executeQuery();
             META-INF
              WEB-INF
ispbook
                                                                          126
amidtest_leehyeonsu
                                                                          127
128
129
130
                                                                                                   // 데이터가 하나만 있으므로 rs.next()를 한번만 실행 한다.
                                                                                                   // বাগান কান্য আন্তর rs.next()ছ লগান হল লগা।
rs.next();
addrbook.setCt_id(rs.getInt("id"));
addrbook.setFirst_name(rs.getString("first_name"));
addrbook.setLast_name(rs.getString("last_name"));
addrbook.setEmail(rs.getString("email"));

    Servers

                                                                          131
132
133
134
                                                                                                    rs.close();
                                                                                            } catch (SQLException e) {
    e.printStackTrace();
                                                                          135
136
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138
139
                                                                                             finally {
    disconnect();
                                                                          140
                                                                                             return addrbook;
                                                                                      }
                                                                          143
144
                  ill contact_control.jsp
                                                                          145°
146
                                                                                       public ArrayList<Contact> getDBList() {
                  contact.sql
                  index.jsp
                                                                                             ArrayList<Contact> datas = new ArrayList<Contact>();
                                                                          147
                  a list_contact_all.jsp
                                                                          148
                                                                          149
                                                                                             String sql = "select * from contact order by id desc";
                  B style.css
                                                                                            try {
    pstmt = conn.prepareStatement(sql);
    ResultSet rs = pstmt.executeQuery();
    while(rs.next()) {
        Contact addrbook = new Contact();
    }
}
                  a update contact form.isp
                                                                          151
152
153
154
            META-INF
            ≥ WEB-INF
ispbook
                                                                          155
156
157
                                                                                                         addrbook.setCt_id(rs.getInt("id"));
addrbook.setFirst_name(rs.getString("first_name"));
addrbook.setLast_name(rs.getString("last_name"));
addrbook.setEmail(rs.getString("email"));
datas.add(addrbook);
Midtest leehveonsu

    Servers

                                                                          158
                                                                          159
                                                                          161
                                                                                                   }
rs.close();
                                                                          162
163
164
                                                                                             } catch (SQLException e) {
                                                                          165
166
                                                                                             finally {
    disconnect();
                                                                          167
                                                                          168
169
170
                                                                                             return datas;
                                                                          171
172 }
                                                                                      }
```

그림 ② <Eclipse Capture - ContactBeanjava>



그림 ③ <Browser Capture>그림 - 주소록 초기화면



그림 ③ <Browser Capture>그림 - 4명추가 후 주소록 리스트



그림 ③ <Browser Capture>그림 - 주소록 추가

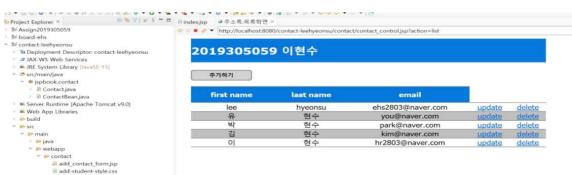


그림 ③ <Browser Capture>그림 - 주소록 추가 확인

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→	101 441	W 1-	100	20 Sec.			
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■ contact.sql							
index.jsp							
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a update_contact_form.jsp							
▶ META-INF							

그림 ③ <Browser Capture>그림 - 주소록 수정(박현수->감수현)

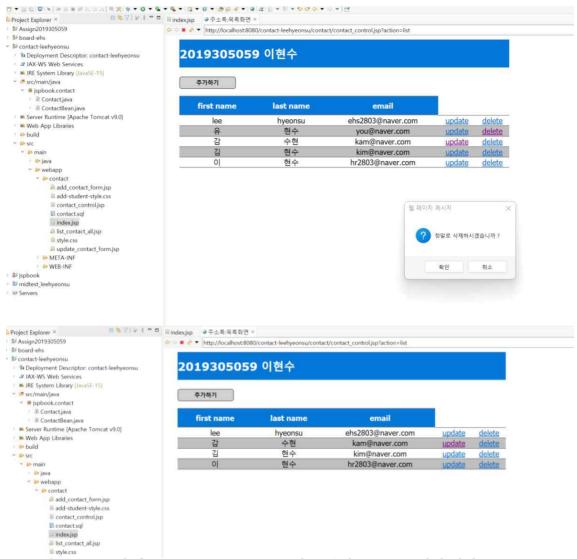


그림 ③ <Browser Capture>그림 - 유현수 주소록 삭제 확인