

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. <본인자인>

이현수

```

/*****
/* 학번 : 2019305059 */
/* 성명 : 이현수 */
/* 작성일 : 2022. 5. 6 */
/* 파일명 : index.JSP */
/* 내용 : index.jsp - 처음 접속 */
*****/

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% pageContext.forward("contact_control.jsp?action=list"); %>

```

그림 ① <index.JSP>

```

/*****
/* 학번 : 2019305059 */
/* 성명 : 이현수 */
/* 작성일 : 2022. 5. 6 */
/* 파일명 : list_contact_all.JSP */
/* 내용 : 주소록 리스트 출력 */
*****/

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8" import="java.util.*, jspbook.contact.*"%>
<!DOCTYPE HTML>
<html>
<head>

<link rel="stylesheet" href="style.css" type="text/css" media="screen" />

<script type="text/javascript">
    function check(ab_id) { //id랑 update 눌렀을때,
        //pwd = prompt('수정/삭제 하려면 비밀번호를 넣으세요'); //비밀번호 눌러야
        //조화가능
        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+"&upass
            wd"+"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"
onclick="location.href='add_contact_form.jsp'">추가하기</button>
<div>

    <table>
    <tr>
    <th>first name</th>
    <th>last name</th>
    <th>email</th>
    </tr>
    <!--p.189~191 -->
    <%
    for(Contact ab : (ArrayList<Contact>)datas) {
    %>
    <tr>
    <td><%=ab.getFirst_name() %></td>
    <td><%=ab.getLast_name() %></td>
    <td><%=ab.getEmail() %></td>
    <td><a href="javascript:check(<%=ab.getCt_id()%>)">update</a></td>
    <td><a href="javascript:delcheck(<%=ab.getCt_id()%>)">delete</a></td>
    </tr>
    <%
    }
    %>
    </table>

</div>
</body>
</html>

```

그림 ① <list_contact_all.JSP>

```

/*****
/* 학번 : 2019305059
/* 성명 : 이현수
/* 작성일 : 2022. 5. 6
/* 파일명 : add_contact_form.JSP
/* 내용 : 주소록 추가 form
*****/

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE HTML>
<html>
<head>
<link rel="stylesheet" href="add-student-style.css" type="text/css" media="screen"
/>
<link rel="stylesheet" href="style.css" type="text/css" media="screen" />
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>주소록:작성화면</title>

</head>
<body>

```

```

<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">
<table>
<tr><label for="n">first name:
    <input type="text" name="first_name" id="n"></label><br></tr>
<tr><label for="ln">last name:
    <input type="text" name="last_name" id="ln"></label><br></tr>
<tr><label for="e">email:
    <input type="email" name="email" id="e"></label></tr>
</table>
<input class="save" type=submit value="저장">
</form>
<br>
<br><br>
<br>
<a href=contact_control.jsp?action=list>목록으로</a>

</div>
</div>
</div>
</body>
</html>

```

그림 ① <add_contact_form.JSP>

```

/*****
/* 학번 : 2019305059 */
/* 성명 : 이현수 */
/* 작성일 : 2022. 5. 6 */
/* 파일명 : update_contact_form.JSP */
/* 내용 : 주소록 업데이트 form */
*****/

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8" import="jspbook.contact.*"%>
<!DOCTYPE HTML>
<html>
<head>
<link rel="stylesheet" href="add-student-style.css" type="text/css" media="screen" />
<link rel="stylesheet" href="style.css" type="text/css" media="screen" />
<script>
function delcheck(id) {
//document.form1.action.value="delete";
//document.form1.submit();
document.location.href="contact_control.jsp?action=delete&ct_id="+id+"&upasswd="+
"1234"
}
</script>

```

```

<%
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">

<table border="1">
<tr><label for="n">first name:
<input type="text" name="first_name" id="n" value="<%=ab.getFirst_name()
%>"></label><br></tr>
<tr><label for="ln">last name:
<input type="text" name="last_name" id="ln" value="<%=ab.getLast_name()
%>"></label><br></tr>
<tr><label for="e">email:
<input type="email" name="email" id="e" value="<%=ab.getEmail()
%>"></label></tr>

<tr>
<input class="save" type=submit value="저장">
</tr>
</table>
</form>

<br>
<br><br>
<a href=contact_control.jsp?action=list>Back to List</a>

</div>
</div>
</div>
</body>
</html>

```

그림 ① <update_contact_form.JSP>

```

/*****
/* 학번 : 2019305059 */
/* 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<Contact> datas = ab.getDBList();
    request.setAttribute("datas", datas);
    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>");
    }
    else {
        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");
    }
    else
        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() {
try {
Class.forName(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=?"

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.executeUpdate();
} catch (SQLException e) {
e.printStackTrace();
return false
}
finally {
disconnect();
}
return true
}

// 특정 주소록 게시물 삭제 메서드
public boolean deleteDB(int gb_id) {
connect();

String sql = "delete from contact where id=?"

try {
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) {
connect();
// sql 문자열 , gb_id 는 자동 등록 되므로 입력하지 않는다.

String sql ="insert into contact(first_name, last_name, email) values(?,?,?)"

try {
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 게시물 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);

try {
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"
try {
    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 (SQLException e) {
    e.printStackTrace();
}
finally {
    disconnect();
}
return datas
}
}

```

그림 ① <ContactBean.java>

```

CREATE TABLE `contact` (
  `id` int NOT NULL AUTO_INCREMENT,
  `first_name` varchar(45) DEFAULT NULL,
  `last_name` varchar(45) DEFAULT NULL,
  `email` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `id_UNIQUE` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=15 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

insert into contact (first_name, last_name, email) values
("이", "현수", "hr2803@naver.com");
insert into contact (first_name, last_name, email) values
("김", "현수", "kim@naver.com");
insert into contact (first_name, last_name, email) values
("박", "현수", "park@naver.com");
insert into contact (first_name, last_name, email) values
("유", "현수", "you@naver.com");

```

그림 ① <contact.sql>

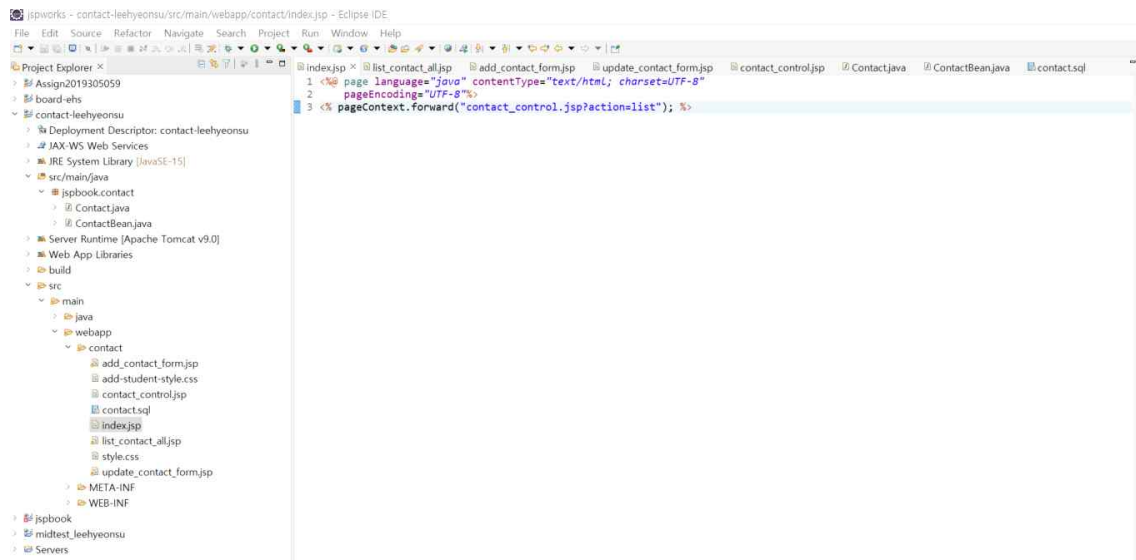


그림 ② <Eclipse Capture - index.JSP>

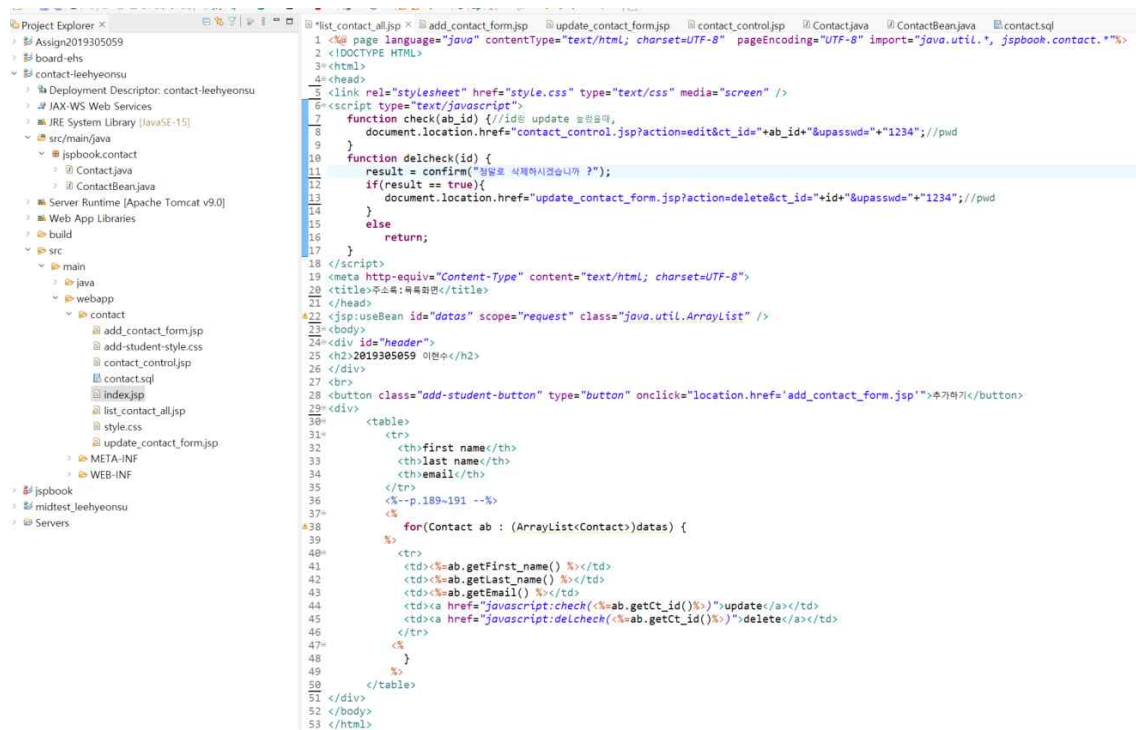


그림 ② <Eclipse Capture - list_contact_all.JSP>

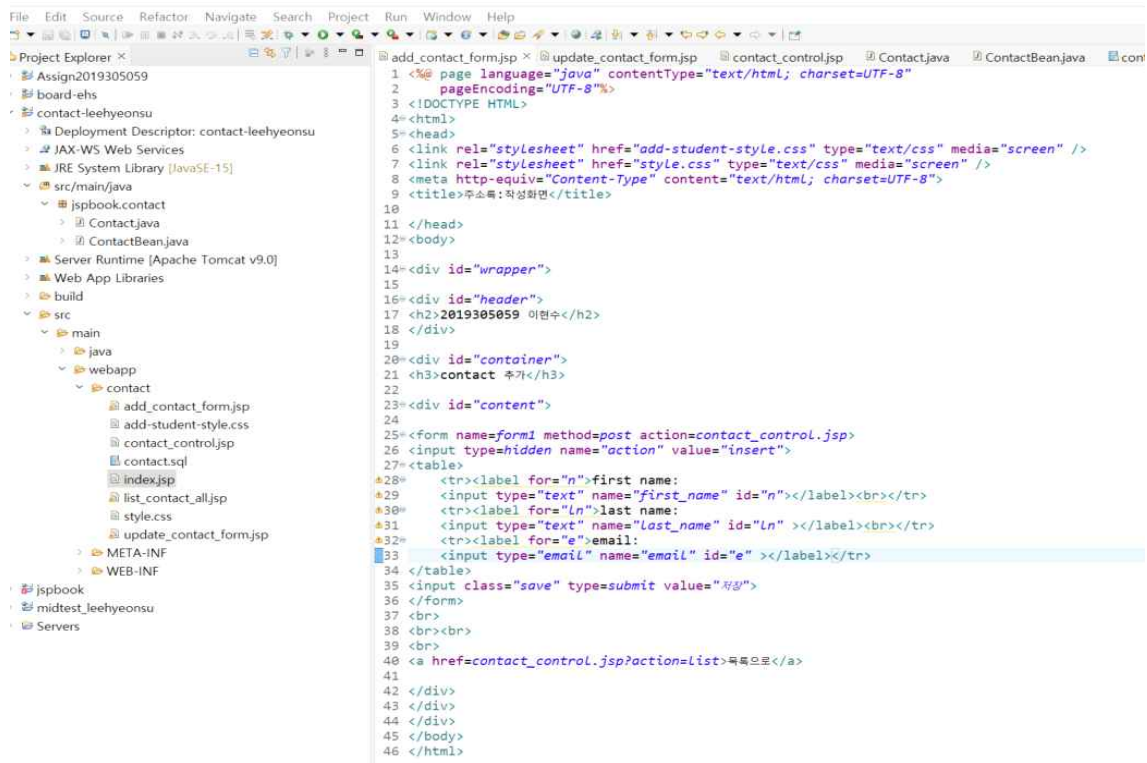


그림 ② <Eclipse Capture - add_contact_form.JSP>

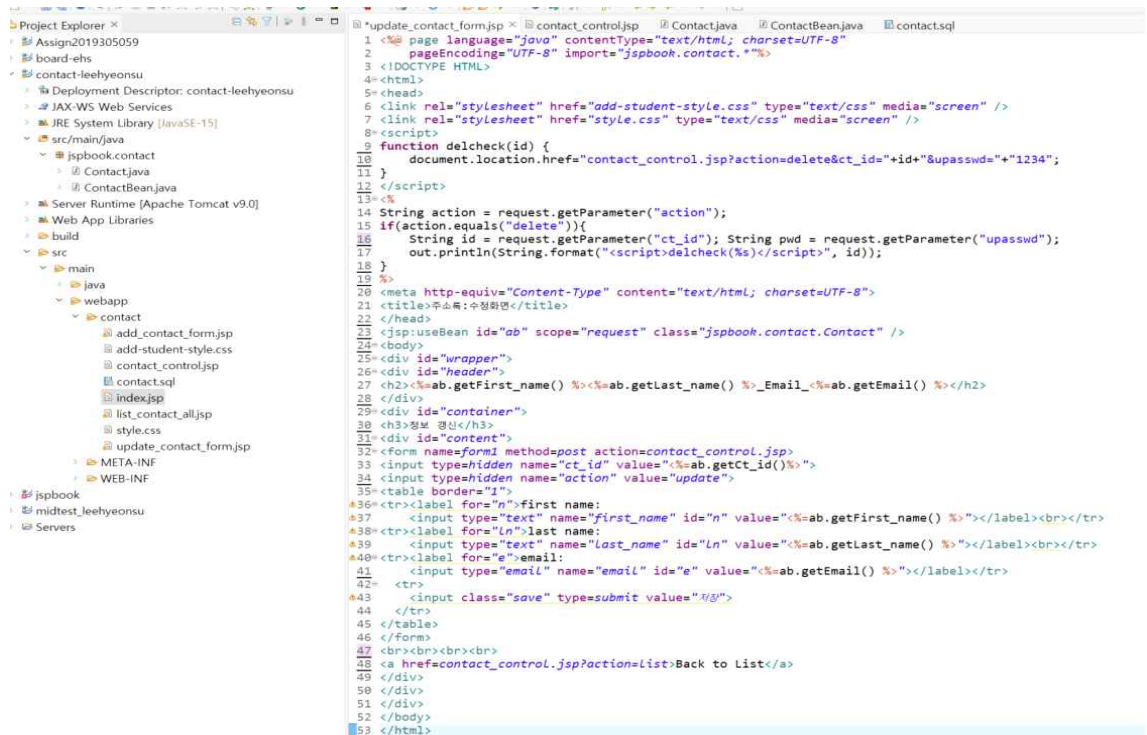


그림 ② <Eclipse Capture - update_contact_form.JSP>

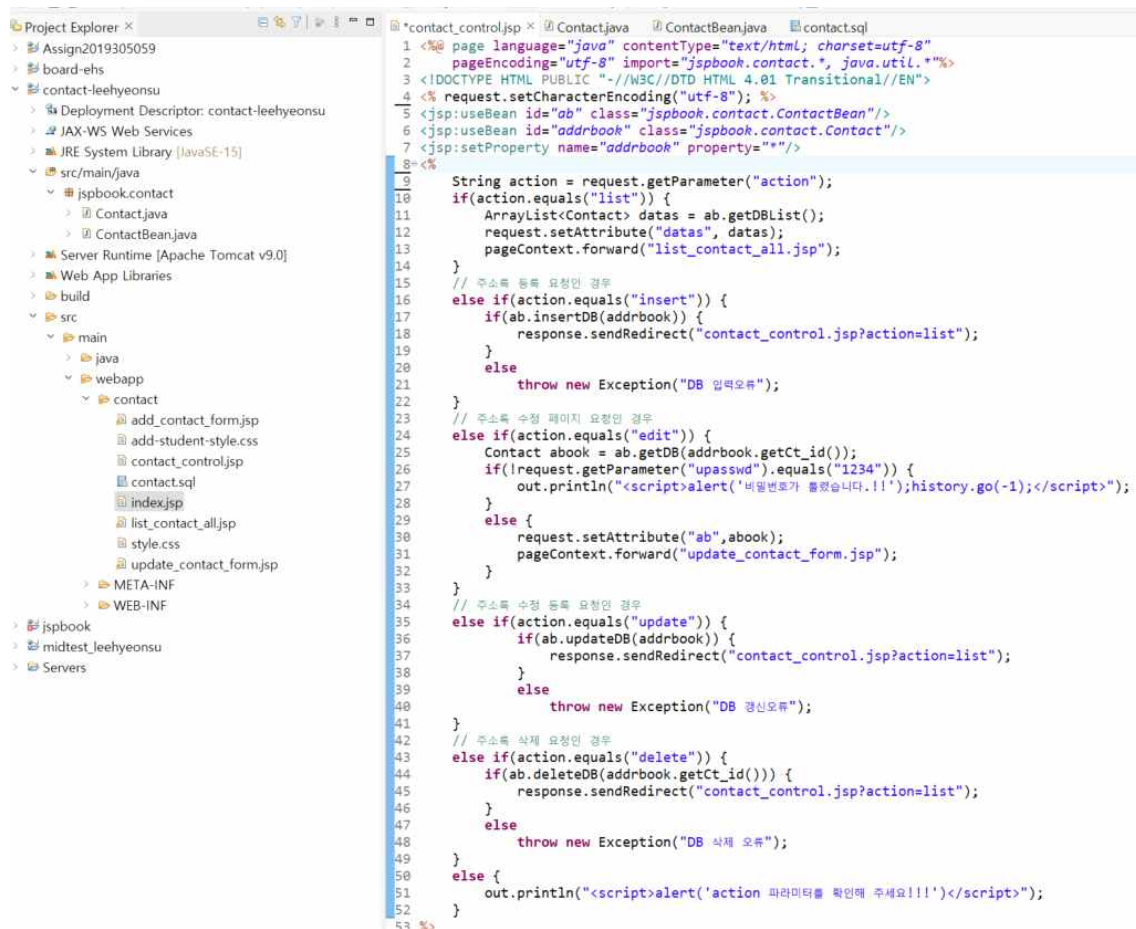


그림 ② <Eclipse Capture - contact_control.JSP>

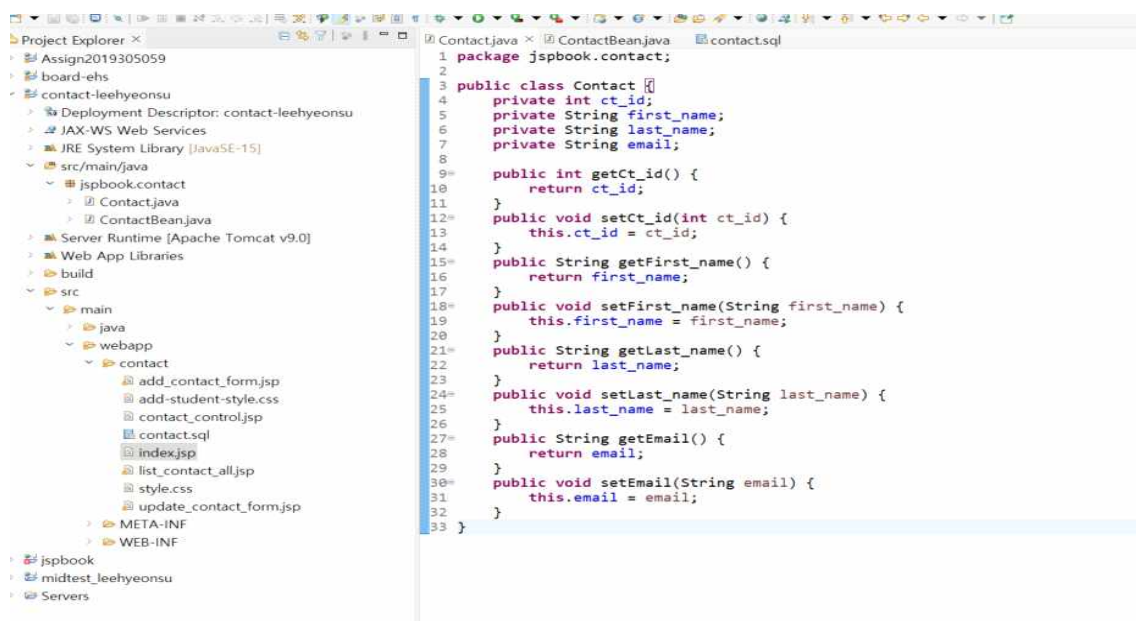


그림 ② <Eclipse Capture - Contact.java>

Project Explorer

Assign2019305059

board-ehs

contact-leehyeonsu

- Deployment Descriptor: contact-leehyeonsu
- JAX-WS Web Services
- JRE System Library [JavaSE-15]
- src/main/java
 - jspbook.contact
 - Contact.java
 - ContactBean.java
- Server Runtime [Apache Tomcat v9.0]
- Web App Libraries
- build
 - main
 - java
 - webapp
 - contact
 - add_contact_form.jsp
 - add-student-style.css
 - contact_control.jsp
 - contact.sql
 - index.jsp
 - list_contact_all.jsp
 - style.css
 - update_contact_form.jsp
 - META-INF
 - WEB-INF
- jspbook
- midtest_leehyeonsu
- Servers

ContactBean.java

contact.sql

```

1 package jspbook.contact;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.PreparedStatement;
6 import java.sql.ResultSet;
7 import java.sql.SQLException;
8 import java.util.ArrayList;
9
10
11 public class ContactBean {
12
13     Connection conn = null;
14     PreparedStatement pstmt = null;
15
16     /* MySQL 연결정보 */
17     String jdbc_driver = "com.mysql.jdbc.Driver";
18     String jdbc_url = "jdbc:mysql://127.0.0.1:3306/contact_tracker";
19
20     // DB연결 메서드
21     void connect() {
22         try {
23             Class.forName(jdbc_driver);
24
25             conn = DriverManager.getConnection(jdbc_url, "jspbook", "1234");
26         } catch (Exception e) {
27             e.printStackTrace();
28         }
29     }
30
31     void disconnect() {
32         if(pstmt != null) {
33             try {
34                 pstmt.close();
35             } catch (SQLException e) {
36                 e.printStackTrace();
37             }
38         }
39         if(conn != null) {
40             try {
41                 conn.close();
42             } catch (SQLException e) {
43                 e.printStackTrace();
44             }
45         }
46     }
47
48     // 수정된 주소록 내용 영신을 위한 메서드
49     public boolean updateDB(Contact addrbook) {
50         connect();
51
52         String sql = "update contact set first_name=?, last_name=?, email=? where id=?";
53
54         try {
55             pstmt = conn.prepareStatement(sql);
56             pstmt.setString(1, addrbook.getFirst_name());
57             pstmt.setString(2, addrbook.getLast_name());
58             pstmt.setString(3, addrbook.getEmail());
59             pstmt.setInt(4, addrbook.getId());
60             pstmt.executeUpdate();
61         } catch (SQLException e) {
62             e.printStackTrace();
63             return false;
64         }
65         finally {
66             disconnect();
67         }
68         return true;
69     }
70
71     // 특정 주소록 게시물 삭제 메서드
72     public boolean deleteDB(int gb_id) {
73         connect();
74
75         String sql = "delete from contact where id=?";
76
77         try {
78             pstmt = conn.prepareStatement(sql);
79             pstmt.setInt(1, gb_id);
80             pstmt.executeUpdate();
81         } catch (SQLException e) {
82             e.printStackTrace();
83             return false;
84         }
85         finally {
86             disconnect();
87         }
88         return true;
89     }
90

```



그림 ② <Eclipse Capture - ContactBean.java>

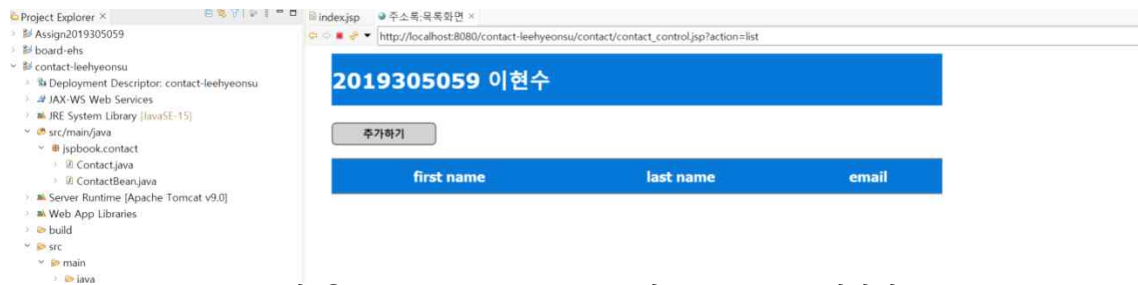


그림 ③ <Browser Capture>그림 - 주소록 초기화면



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

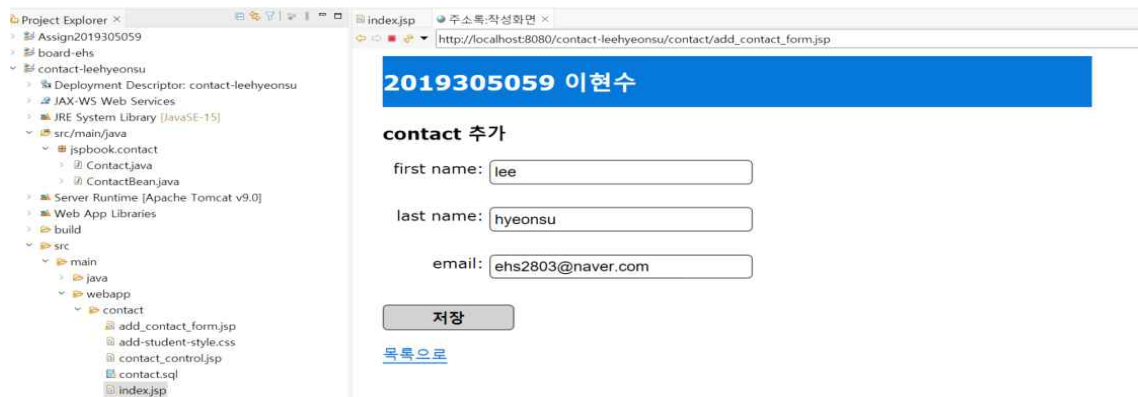


그림 ③ <Browser Capture>그림 - 주소록 추가

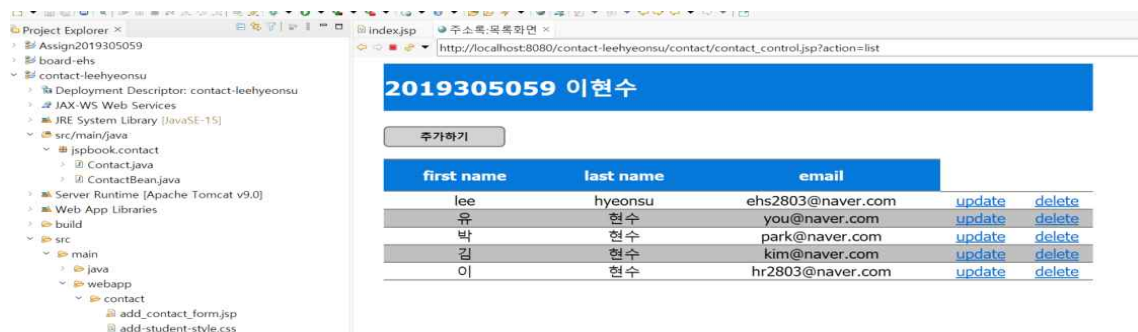


그림 ③ <Browser Capture>그림 - 주소록 추가 확인

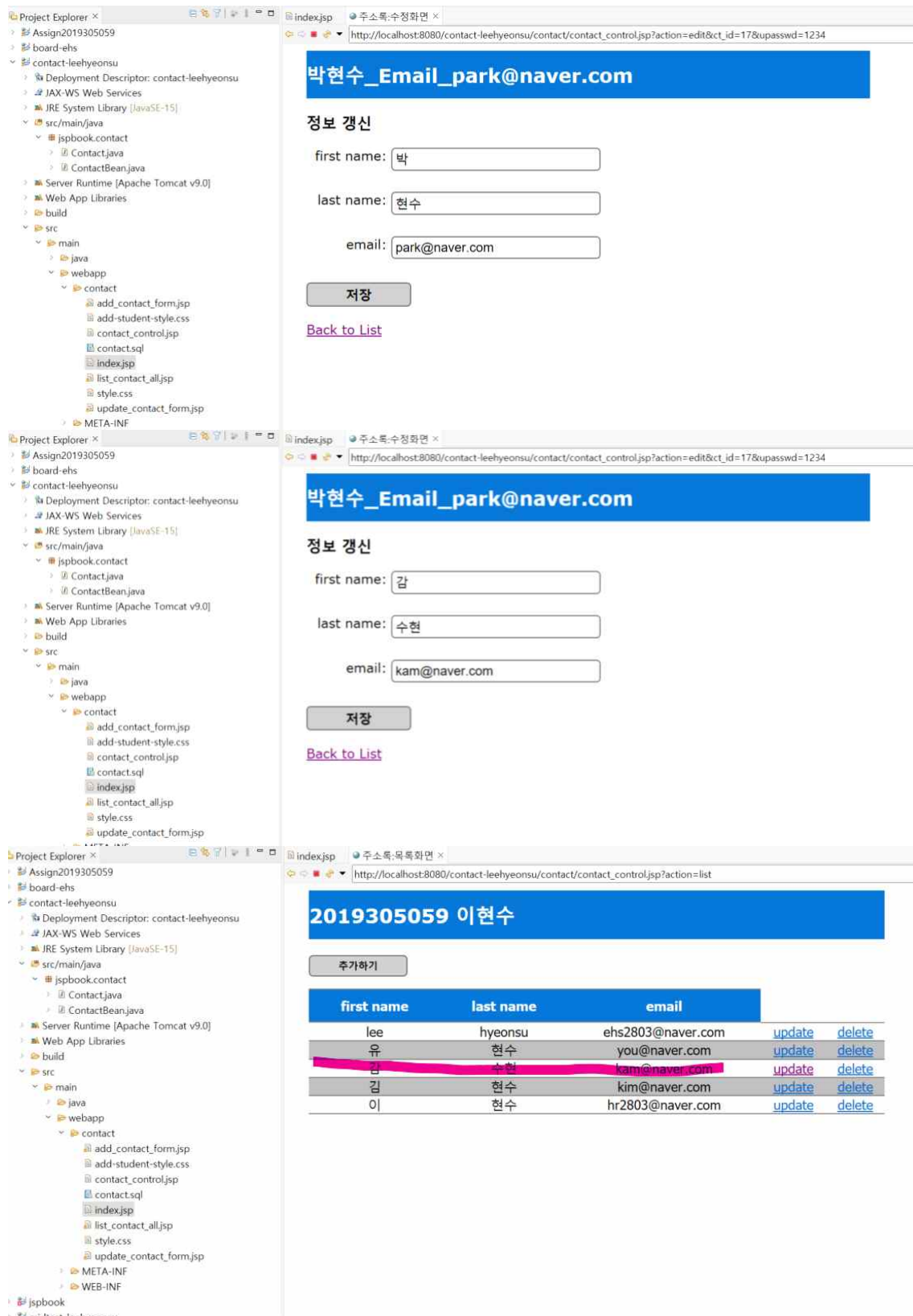


그림 ③ <Browser Capture>그림 - 주소록 수정(박현수->감수현)

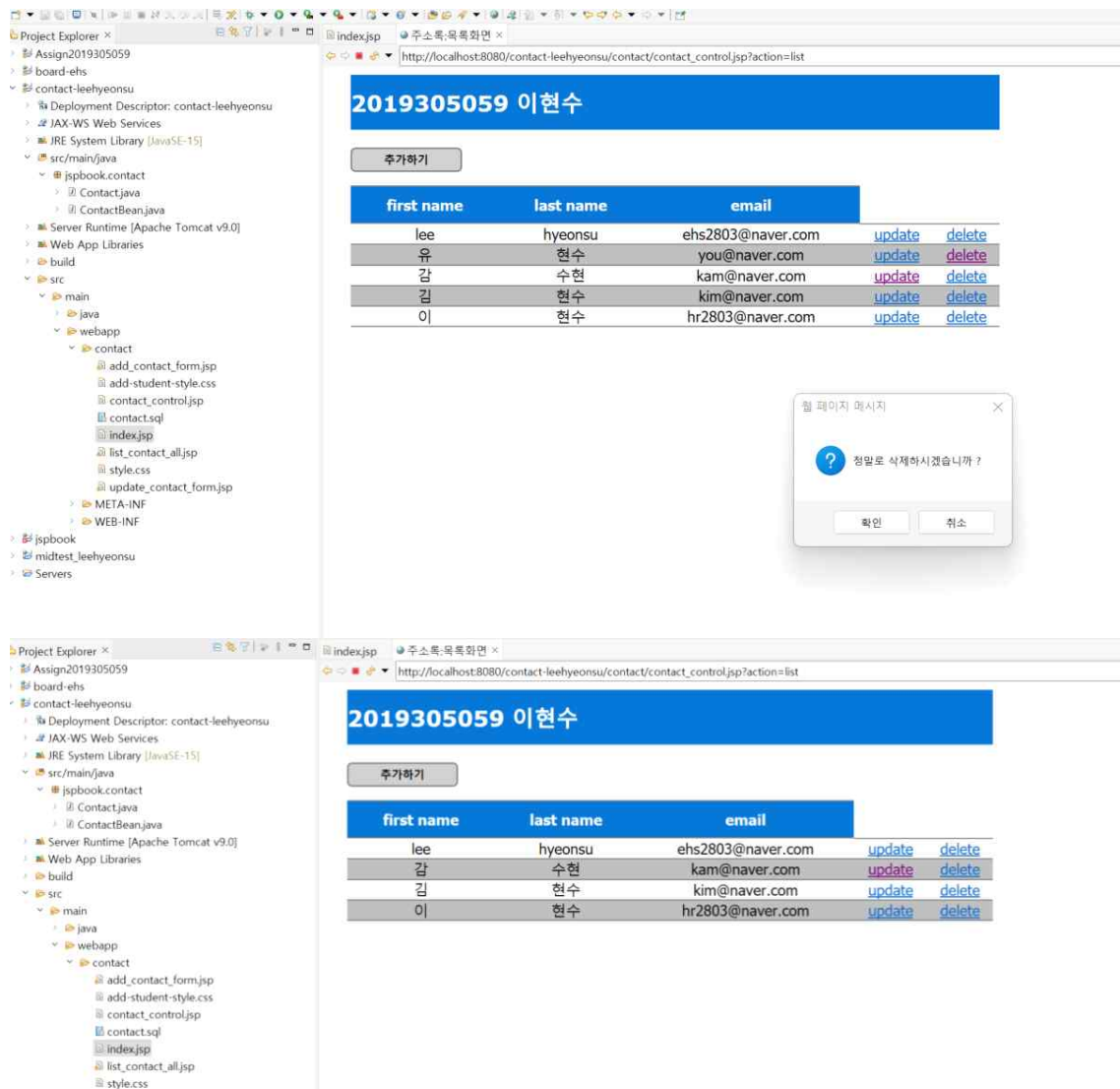


그림 ③ <Browser Capture>그림 - 유현수 주소록 삭제 확인