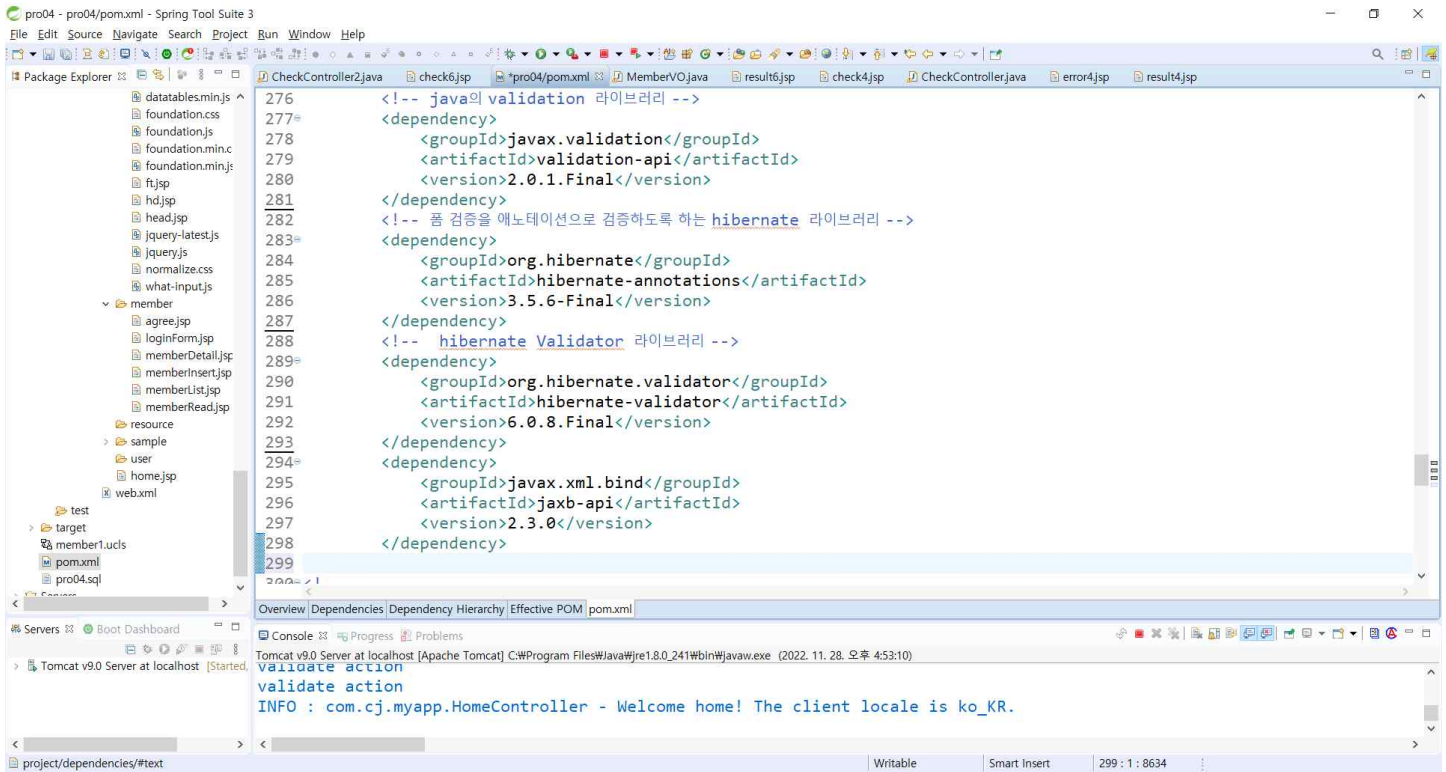


1-1. pro04/pom.xml 에 의존성 라이브러리 추가



1-2. 폼 컨트롤의 pattern 속성과 required로 폼 검증하기 pro04/src/main/webapp/WEB-INF/views/check/check1.jsp를 작성



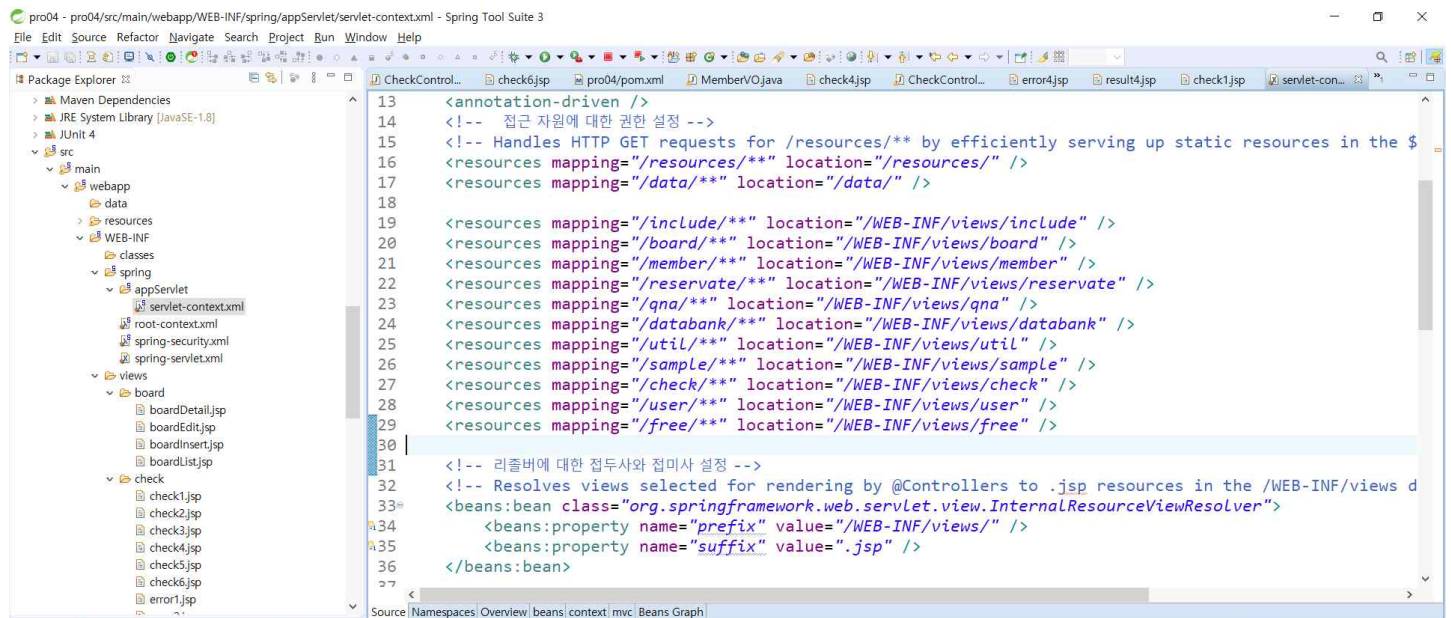
1-3. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result1.jsp 작성

```
jsp - Spring Tool Suite 3
Window Help
CheckControl... check6.jsp pro04/pom.xml MemberVO.java CheckControl... result4.jsp check1.jsp servlet-con... check2.jsp result1.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>결과1</title>
13 </head>
14 <body>
15   <h2>결과1</h2>
16   <div>
17     <p>${id }</p>
18     <p>${pw }</p>
19   </div>
20 </body>
21 </html>
```

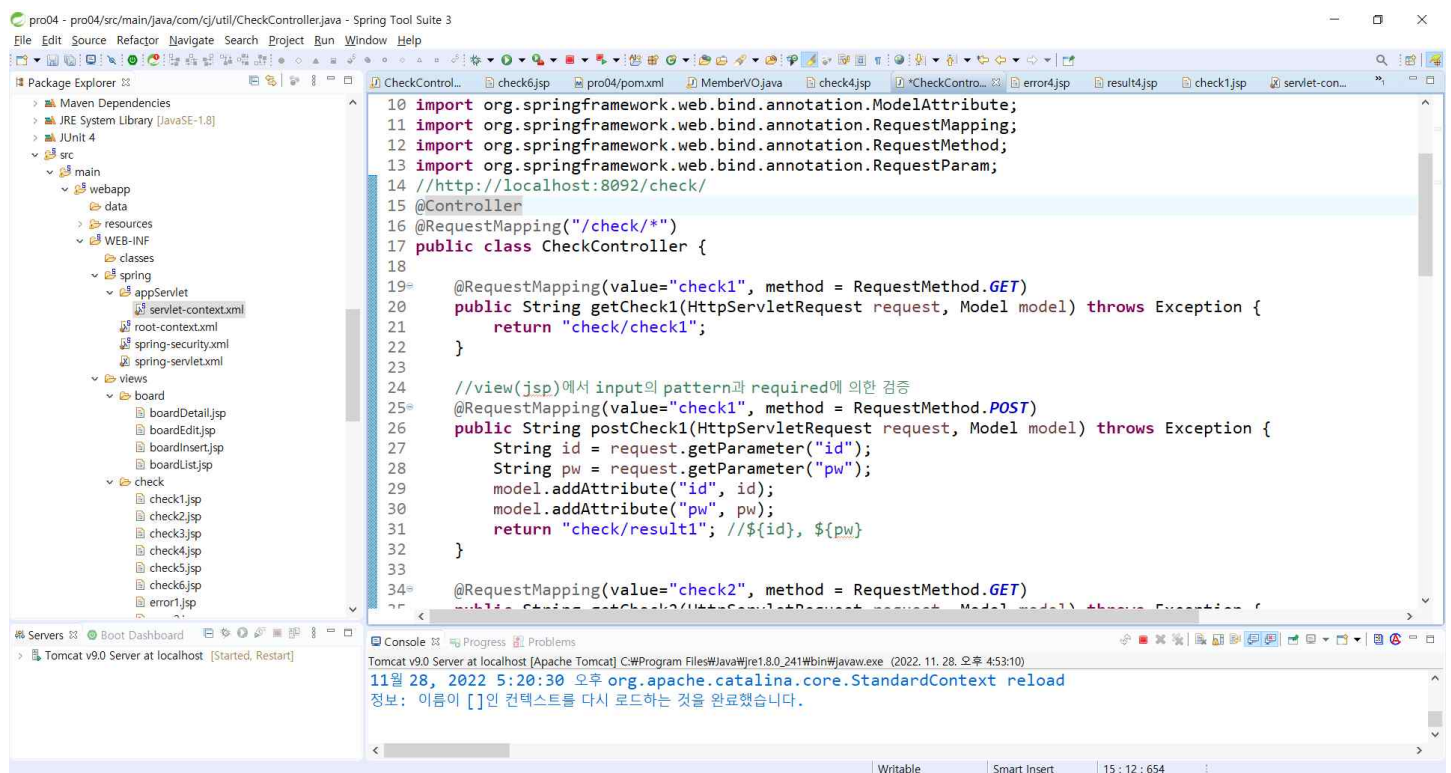
1-4. 예러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error1.jsp 작성

```
jsp - Spring Tool Suite 3
Window Help
CheckControl... check6.jsp pro04/pom.xml MemberVO.java CheckControl... check1.jsp servlet-con... check2.jsp result1.jsp error1.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>에러 페이지</title>
13 </head>
14 <body>
15   <h2>에러페이지1</h2>
16   <div>
17     <p>아이디 또는 비밀번호를 입력하지 않으셨거나 비밀번호 형식이 잘못되었습니다.</p>
18   </div>
19 </body>
20 </html>
```

1-5. pro04/src/main/webapp/WEB-INF/spring/appServlet/servlet-context.xml 에 check 디렉토리 내용이 접근 가능하도록 자원 추가하기

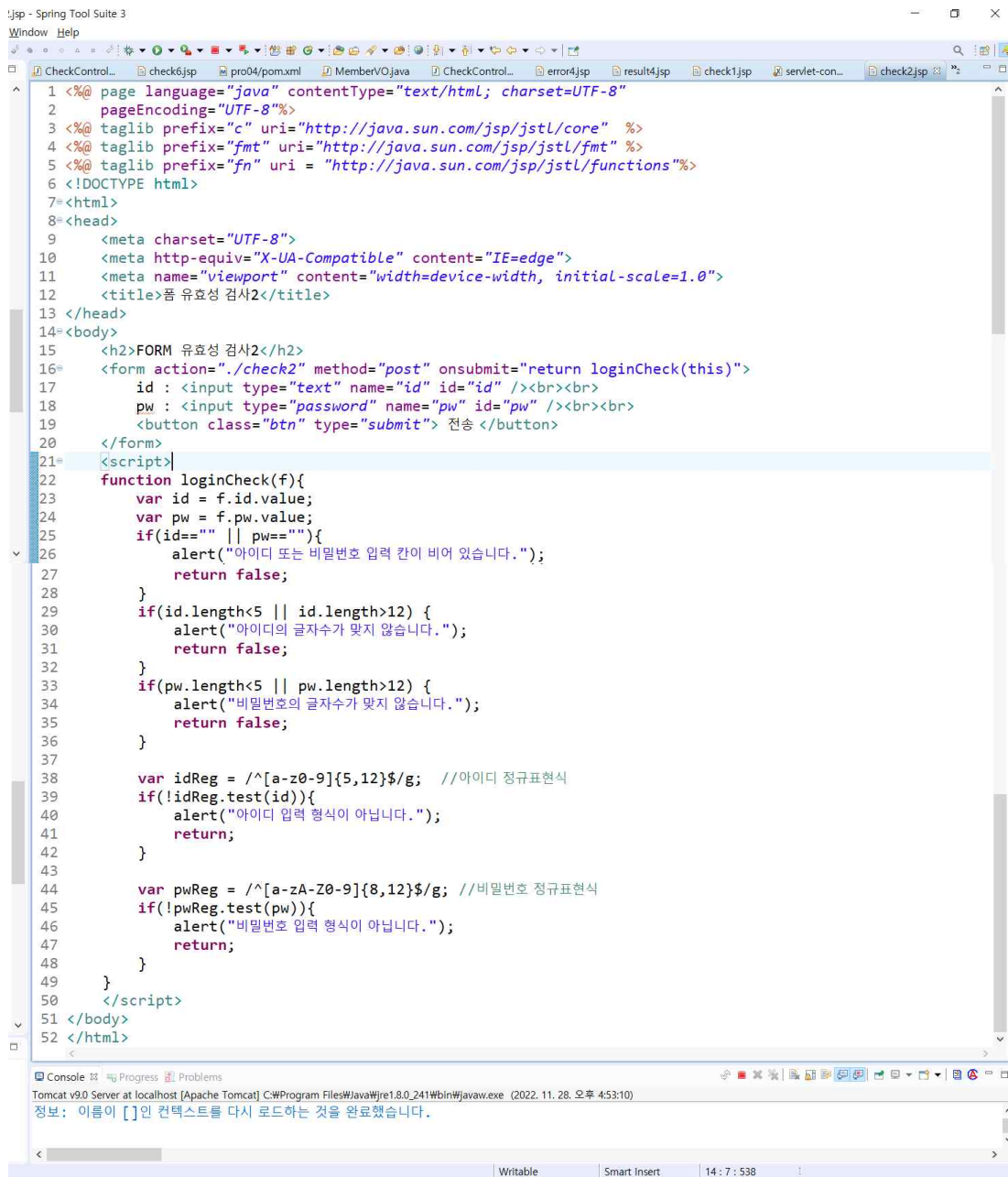


1.6 pro04/src/main/java/com.cj.util.CheckController.java 에 check1의 요청 컨트롤러 작성하기



2-1. 자바스크립트로 폼 검증하기

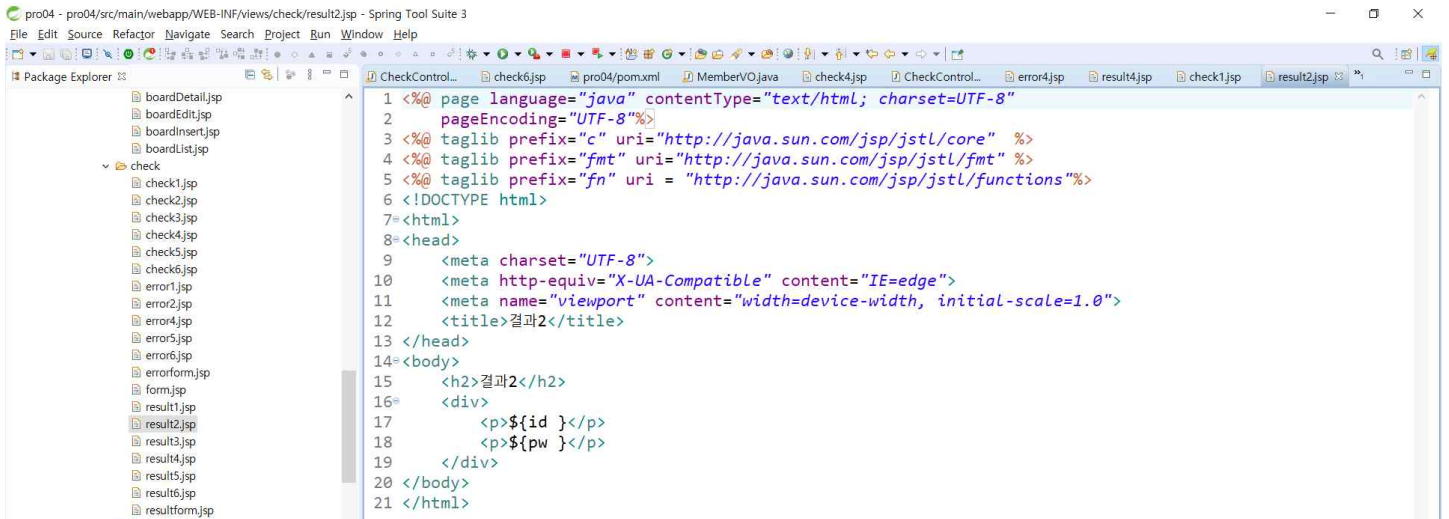
pro04/src/main/webapp/WEB-INF/views/check/check2.jsp를 작성



```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>폼 유효성 검사2</title>
13 </head>
14 <body>
15   <h2>FORM 유효성 검사2</h2>
16   <form action="./check2" method="post" onsubmit="return loginCheck(this)"
17     id : <input type="text" name="id" id="id" /><br><br>
18     pw : <input type="password" name="pw" id="pw" /><br><br>
19     <button class="btn" type="submit"> 전송 </button>
20   </form>
21   <script>
22     function loginCheck(f){
23       var id = f.id.value;
24       var pw = f.pw.value;
25       if(id==" " || pw==""){
26         alert("아이디 또는 비밀번호 입력 칸이 비어 있습니다.");
27         return false;
28       }
29       if(id.length<5 || id.length>12) {
30         alert("아이디의 글자수가 맞지 않습니다.");
31         return false;
32       }
33       if(pw.length<5 || pw.length>12) {
34         alert("비밀번호의 글자수가 맞지 않습니다.");
35         return false;
36       }
37
38       var idReg = /^[a-z0-9]{5,12}$/g; //아이디 정규표현식
39       if(!idReg.test(id)){
40         alert("아이디 입력 형식이 아닙니다.");
41         return;
42       }
43
44       var pwReg = /^[a-zA-Z0-9]{8,12}$/g; //비밀번호 정규표현식
45       if(!pwReg.test(pw)){
46         alert("비밀번호 입력 형식이 아닙니다.");
47         return;
48       }
49     }
50   </script>
51 </body>
52 </html>
```

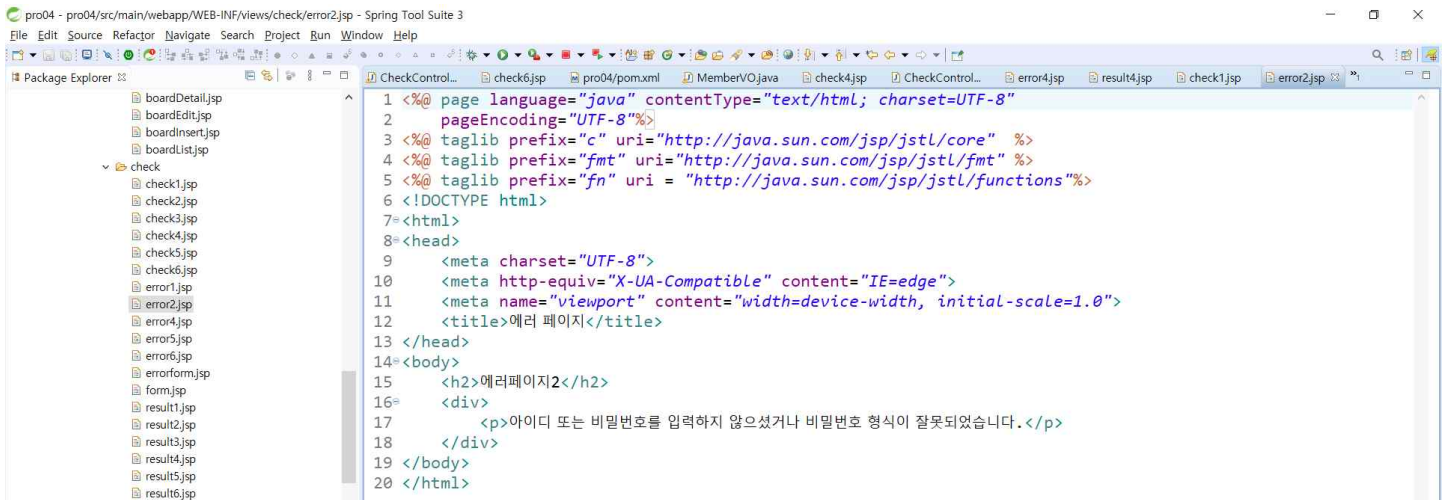
Console: Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (2022. 11. 28. 오후 4:53:10)
정보: 이름이 []인 컨텍스트를 다시 로드하는 것을 완료했습니다.

2-2. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result2.jsp 작성



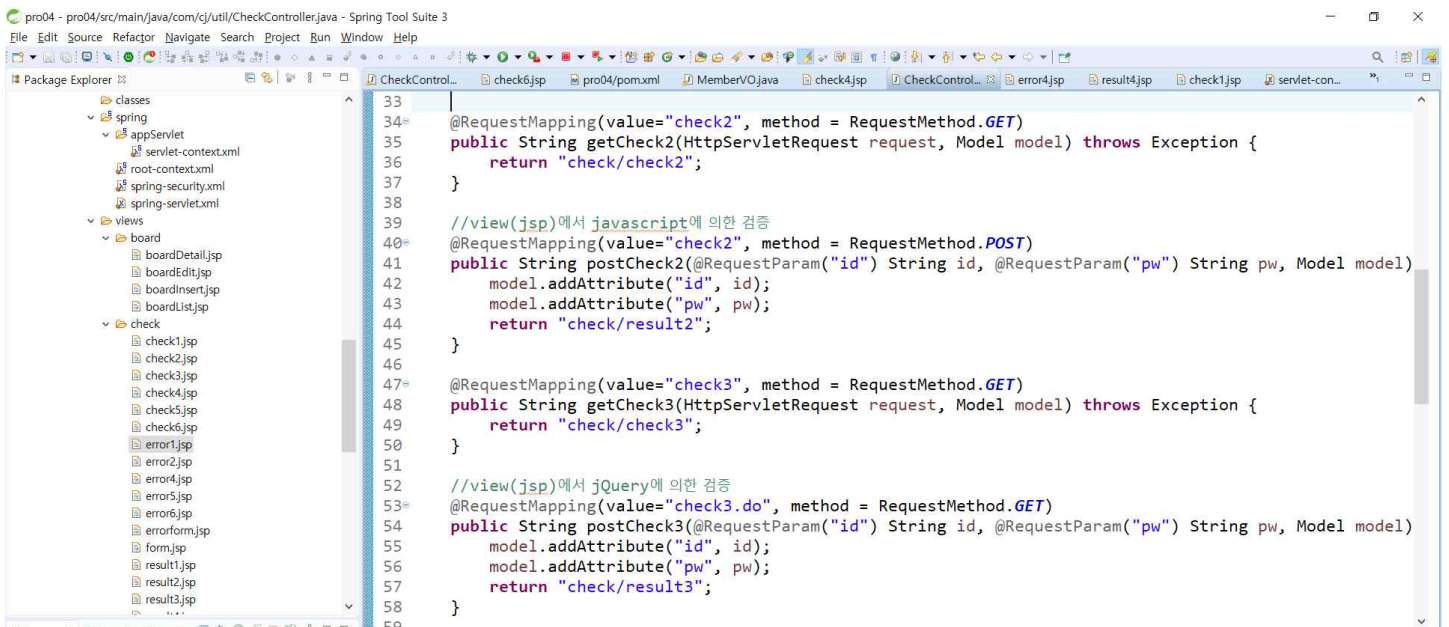
```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>결과2</title>
13 </head>
14 <body>
15   <h2>결과2</h2>
16   <div>
17     <p>${id}</p>
18     <p>${pw}</p>
19   </div>
20 </body>
21 </html>
```

2-3. 예러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error2.jsp 작성



```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>예러 페이지</title>
13 </head>
14 <body>
15   <h2>예러페이지2</h2>
16   <div>
17     <p>아이디 또는 비밀번호를 입력하지 않으셨거나 비밀번호 형식이 잘못되었습니다.</p>
18   </div>
19 </body>
20 </html>
```

2-4. pro04/src/main/java/com.cj.util.CheckController.java 에 check2의 요청 컨트롤러 작성하기



```
33
34 @RequestMapping(value="check2", method = RequestMethod.GET)
35 public String getCheck2(HttpServletRequest request, Model model) throws Exception {
36   return "check/check2";
37 }
38
39 //view(jsp)에서 javascript에 의한 검증
40 @RequestMapping(value="check2", method = RequestMethod.POST)
41 public String postCheck2(@RequestParam("id") String id, @RequestParam("pw") String pw, Model model)
42 {
43   model.addAttribute("id", id);
44   model.addAttribute("pw", pw);
45   return "check/result2";
46 }
47
48 @RequestMapping(value="check3", method = RequestMethod.GET)
49 public String getCheck3(HttpServletRequest request, Model model) throws Exception {
50   return "check/check3";
51 }
52
53 //view(jsp)에서 jquery에 의한 검증
54 @RequestMapping(value="check3.do", method = RequestMethod.GET)
55 public String postCheck3(@RequestParam("id") String id, @RequestParam("pw") String pw, Model model)
56 {
57   model.addAttribute("id", id);
58   model.addAttribute("pw", pw);
59   return "check/result3";
60 }
```

3-1. jQuery로 폼 검증하기

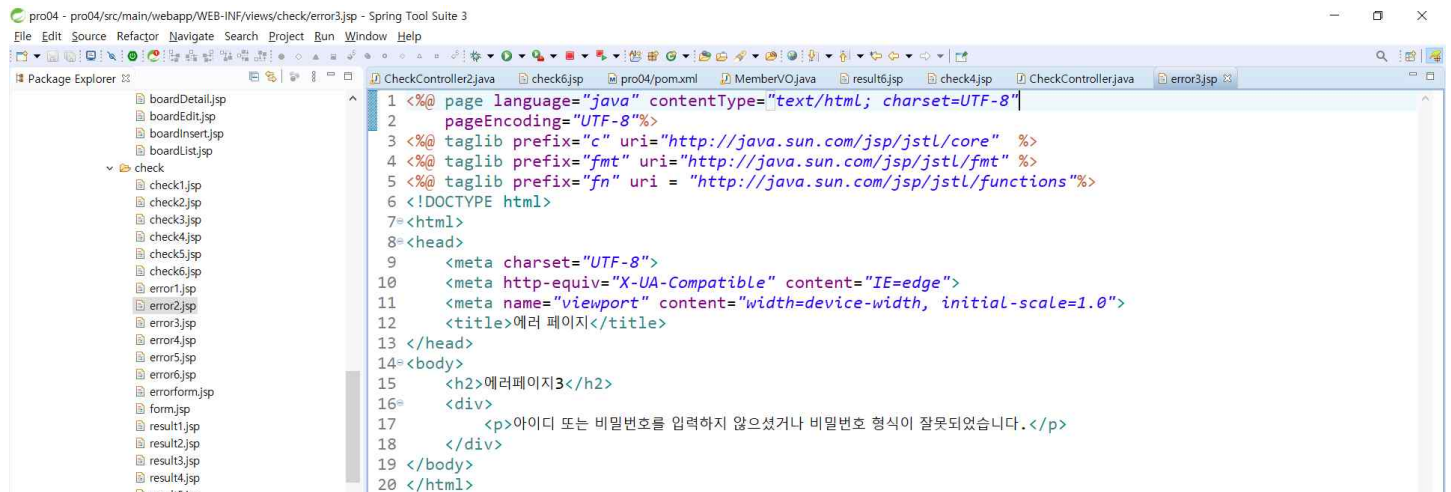
pro04/src/main/webapp/WEB-INF/views/check/check3.jsp를 작성

```
ljsp - Spring Tool Suite 3
Window Help
CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp check4.jsp CheckController.java result3.jsp check3.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>폼 유효성 검사3</title>
13  <script src="https://code.jquery.com/jquery-latest.js"></script>
14 </head>
15 <body>
16   <h2>FORM 유효성 검사3</h2>
17   id : <input type="text" name="id" id="id" /><br><br>
18   pw : <input type="password" name="pw" id="pw" /><br><br>
19   <button class="button" id="submit_btn"> 전송 </button>
20   <script>
21     $(document).ready(function(){
22       $("#submit_btn").click(function(){
23         var id = $("#id").val();
24         var pw = $("#pw").val();
25
26         if(id==" " || pw==""){
27           alert("아이디 또는 비밀번호 입력 칸이 비어 있습니다.");
28           return false;
29         }
30         if(id.length<5 || id.length>12){
31           alert("아이디의 글자수가 맞지 않습니다.");
32           return false;
33         }
34         if(pw.length<5 || pw.length>12){
35           alert("비밀번호의 글자수가 맞지 않습니다.");
36           return false;
37         }
38         var idReg = /^[a-z0-9]{5,12}$/g; //아이디 정규표현식
39         if(!idReg.test(id)){
40           alert("아이디 입력 형식이 아닙니다.");
41           return;
42         }
43         var pwReg = /^[a-zA-Z0-9]{8,12}$/g; //비밀번호 정규표현식
44         if(!pwReg.test(pw)){
45           alert("비밀번호 입력 형식이 아닙니다.");
46           return;
47         }
48         location.href = "./check3.do?id="+id+"&pw="+pw;
49       });
50     });
51   </script>
52 </body>
53 </html>
Console Progress Problems
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (2022. 11. 28. 오후 4:53:10)
11월 28, 2022 5:22:12 오후 org.apache.catalina.core.StandardContext reload
Writable Smart Insert 37 : 15 : 1240
```

3-2. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result3.jsp 작성

```
Package Explorer
boardDetail.jsp
boardEdit.jsp
boardInsert.jsp
boardList.jsp
check
  check1.jsp
  check2.jsp
  check3.jsp
  check4.jsp
  check5.jsp
  check6.jsp
  error1.jsp
  error2.jsp
  error3.jsp
  error4.jsp
  error5.jsp
  error6.jsp
  errorform.jsp
  form.jsp
  result1.jsp
  result2.jsp
  result3.jsp
  result4.jsp
  result5.jsp
  result6.jsp
CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp check4.jsp CheckController.java result3.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>결과3</title>
13 </head>
14 <body>
15   <h2>결과3</h2>
16   <div>
17     <p>${id}</p>
18     <p>${pw}</p>
19   </div>
20 </body>
21 </html>
```


3-3. 에러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error3.jsp 작성



The screenshot shows the Spring Tool Suite 3 interface. On the left, the Package Explorer displays the project structure, with the 'check' folder expanded under 'WEB-INF/views'. The main editor shows the content of 'error3.jsp'.

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"%>
2   <pageEncoding="UTF-8"%>
3   <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4   <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5   <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6   <!DOCTYPE html>
7   <html>
8   <head>
9     <meta charset="UTF-8">
10    <meta http-equiv="X-UA-Compatible" content="IE=edge">
11    <meta name="viewport" content="width=device-width, initial-scale=1.0">
12    <title>에러 페이지</title>
13  </head>
14  <body>
15    <h2>에러페이지3</h2>
16    <div>
17      <p>아이디 또는 비밀번호를 입력하지 않으셨거나 비밀번호 형식이 잘못되었습니다.</p>
18    </div>
19  </body>
20 </html>
```

3-4. pro04/src/main/java/com.cj.util.CheckController.java 에 check3의 요청 컨트롤러 작성하기



The screenshot shows the Spring Tool Suite 3 interface. On the left, the Package Explorer displays the project structure, with the 'check' folder expanded under 'WEB-INF/views'. The main editor shows the content of 'CheckController.java'.

```
39 //view(jsp)에서 javascript에 의한 검증
40 @RequestMapping(value="check2", method = RequestMethod.POST)
41 public String postCheck2(@RequestParam("id") String id, @RequestParam("pw") String pw, Model model)
42 {
43     model.addAttribute("id", id);
44     model.addAttribute("pw", pw);
45     return "check/result2";
46 }
47
48 @RequestMapping(value="check3", method = RequestMethod.GET)
49 public String getCheck3(HttpServletRequest request, Model model) throws Exception {
50     return "check/check3";
51 }
52
53 //view(jsp)에서 jquery에 의한 검증
54 @RequestMapping(value="check3.do", method = RequestMethod.GET)
55 public String postCheck3(@RequestParam("id") String id, @RequestParam("pw") String pw, Model model)
56 {
57     model.addAttribute("id", id);
58     model.addAttribute("pw", pw);
59     return "check/result3";
60 }
```

4-1. Validator에 의한 검증

pro04/src/main/webapp/WEB-INF/views/check/check4.jsp를 작성

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <%@ taglib prefix="spring" uri="http://www.springframework.org/tags" %>
7 <c:set var="path1" value="${pageContext.servletContext.contextPath}" />
8 <!DOCTYPE html>
9 <html>
10 <head>
11   <meta charset="UTF-8">
12   <meta http-equiv="X-UA-Compatible" content="IE=edge">
13   <meta name="viewport" content="width=device-width, initial-scale=1.0">
14   <title>폼 유효성 검사4</title>
15 </head>
16 <body>
17   <h2>FORM 유효성 검사4</h2>
18   <form action="${path1}/check/check4" method="post">
19     id : <input type="text" name="id" id="id"/><br><br>
20     pw : <input type="password" name="pw" id="pw" /><br><br>
21     <button class="btn" type="submit"> 전송 </button>
22   </form>
23 </body>
24 </html>
```

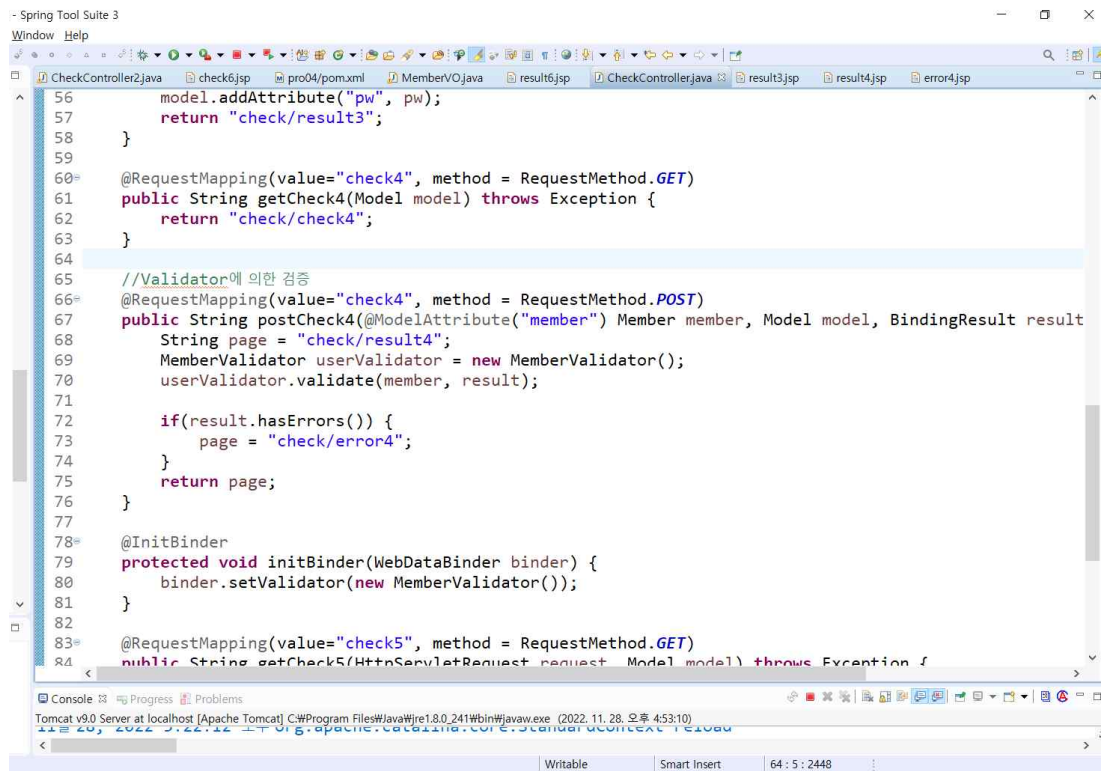
4-2. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result4.jsp 작성

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <%@ taglib prefix="spring" uri="http://www.springframework.org/tags" %>
7 <!DOCTYPE html>
8 <html>
9 <head>
10   <meta charset="UTF-8">
11   <meta http-equiv="X-UA-Compatible" content="IE=edge">
12   <meta name="viewport" content="width=device-width, initial-scale=1.0">
13   <title>결과4</title>
14 </head>
15 <body>
16   <h2>결과4</h2>
17   <div>
18     <p>${member.id}</p>
19     <p>${member.pw}</p>
20   </div>
21 </body>
22 </html>
```

4-3. 예러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error4.jsp를 작성

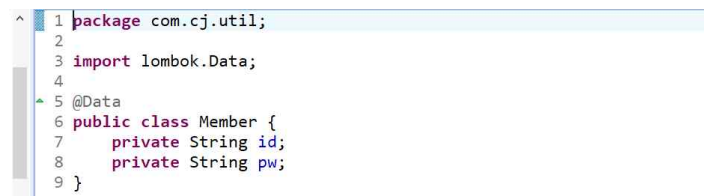
```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10   <meta http-equiv="X-UA-Compatible" content="IE=edge">
11   <meta name="viewport" content="width=device-width, initial-scale=1.0">
12   <title>에러 페이지</title>
13 </head>
14 <body>
15   <h2>에러페이지4</h2>
16   <div>
17     <p>아이디 또는 비밀번호를 입력하지 않았거나 비밀번호 형식이 잘못되었습니다.</p>
18   </div>
19 </body>
20 </html>
```


4-4. pro04/src/main/java/com.cj.util.CheckController.java 에 check4의 요청 컨트롤러 작성하기



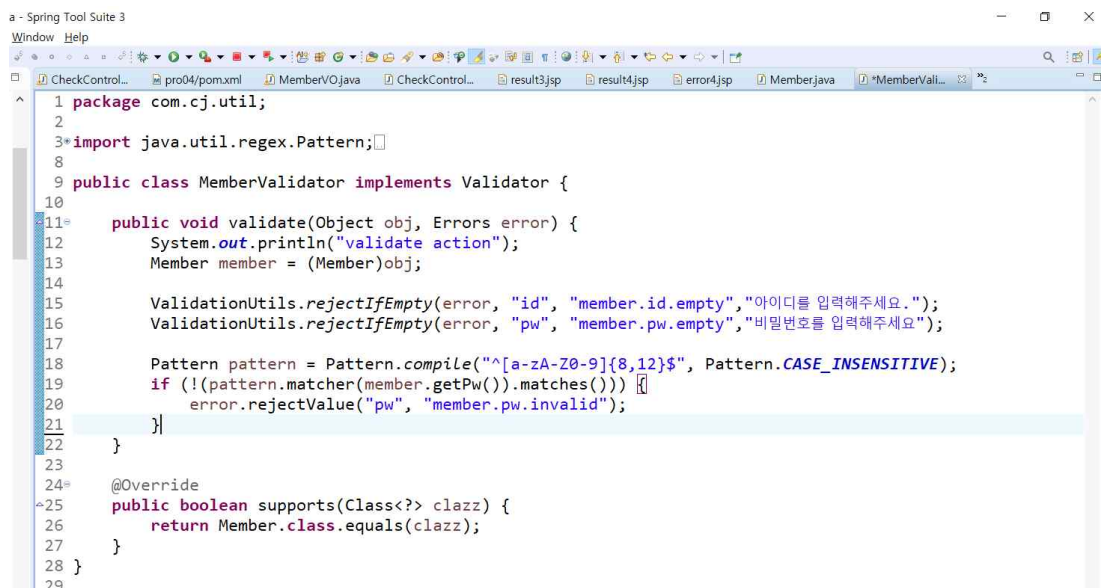
```
56     model.addAttribute("pw", pw);
57     return "check/result3";
58 }
59
60 @RequestMapping(value="check4", method = RequestMethod.GET)
61 public String getCheck4(Model model) throws Exception {
62     return "check/check4";
63 }
64
65 //Validator에 의한 검증
66 @RequestMapping(value="check4", method = RequestMethod.POST)
67 public String postCheck4(@ModelAttribute("member") Member member, Model model, BindingResult result)
68     String page = "check/result4";
69     MemberValidator userValidator = new MemberValidator();
70     userValidator.validate(member, result);
71
72     if(result.hasErrors()) {
73         page = "check/error4";
74     }
75     return page;
76 }
77
78 @InitBinder
79 protected void initBinder(WebDataBinder binder) {
80     binder.setValidator(new MemberValidator());
81 }
82
83 @RequestMapping(value="check5", method = RequestMethod.GET)
84 public String getCheck5(HttpServletRequest request, Model model) throws Exception {
```

4-5. pro04/src/main/javacom.cj.util.Member 작성



```
1 package com.cj.util;
2
3 import lombok.Data;
4
5 @Data
6 public class Member {
7     private String id;
8     private String pw;
9 }
```

4-6. pro04/src/main/javacom.cj.util.MemberValidator 작성



```
1 package com.cj.util;
2
3 import java.util.regex.Pattern;
4
5 public class MemberValidator implements Validator {
6
7     public void validate(Object obj, Errors error) {
8         System.out.println("validate action");
9         Member member = (Member)obj;
10
11         ValidationUtils.rejectIfEmpty(error, "id", "member.id.empty", "아이디를 입력해주세요.");
12         ValidationUtils.rejectIfEmpty(error, "pw", "member.pw.empty", "비밀번호를 입력해주세요.");
13
14         Pattern pattern = Pattern.compile("[a-zA-Z0-9]{8,12}$", Pattern.CASE_INSENSITIVE);
15         if (!pattern.matcher(member.getPw()).matches()) {
16             error.rejectValue("pw", "member.pw.invalid");
17         }
18     }
19
20 @Override
21 public boolean supports(Class<?> clazz) {
22     return Member.class.equals(clazz);
23 }
24 }
```

5-1. Validator에 의한 검증(@Valid+@InitBinder)

pro04/src/main/webapp/WEB-INF/views/check/check5.jsp를 작성

```
iJsp - Spring Tool Suite 3
Window Help
CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp *CheckController.java check5.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>폼 유효성 검사5</title>
13 </head>
14 <body>
15   <h2>FORM 유효성 검사5</h2>
16   <form action="/.check5" method="post">
17     id : <input type="text" name="id" id="id"/><br><br>
18     pw : <input type="password" name="pw" id="pw" /><br><br>
19     <button class="btn" type="submit"> 전송 </button>
20   </form>
21 </body>
22 </html>
```

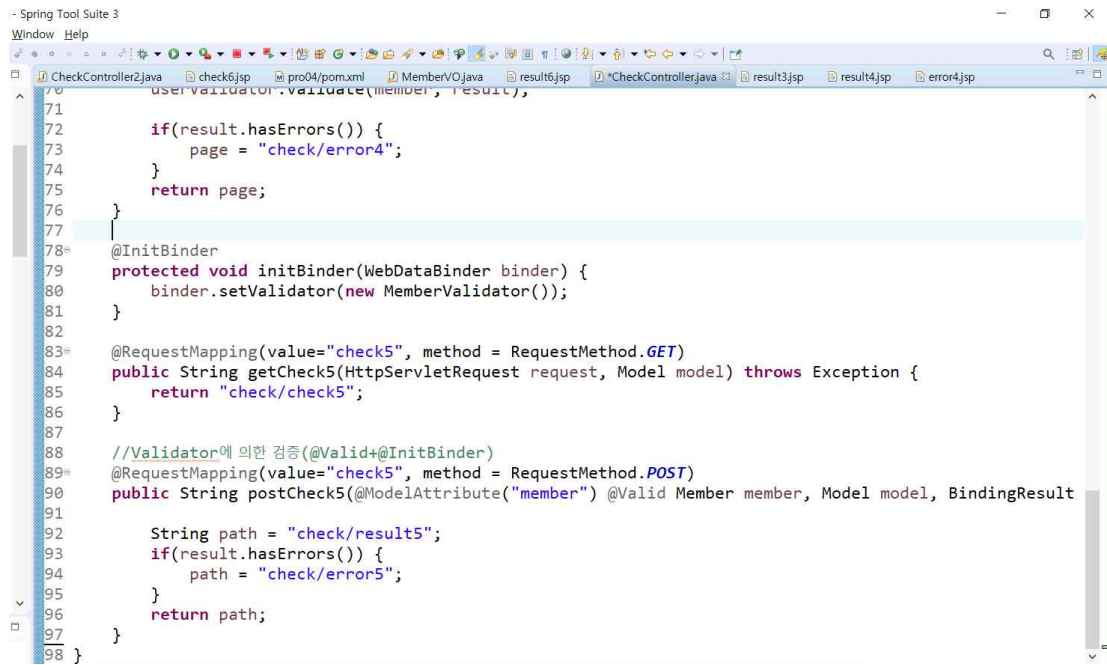
5-2. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result5.jsp 작성

```
iJsp - Spring Tool Suite 3
Window Help
CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp *CheckController.java result5.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>결과5</title>
13 </head>
14 <body>
15   <h2>결과5</h2>
16   <div>
17     <p>${member.id}</p>
18     <p>${member.pw}</p>
19   </div>
20 </body>
21 </html>
```

5-3. 예러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error5.jsp를 작성

```
iJsp - Spring Tool Suite 3
Window Help
CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp *CheckController.java error5.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>에러 페이지</title>
13 </head>
14 <body>
15   <h2>에러페이지5</h2>
16   <div>
17     <p>아이디 또는 비밀번호를 입력하지 않았거나 비밀번호 형식이 잘못되었습니다.</p>
18   </div>
19 </body>
20 </html>
```

5-4. pro04/src/main/java/com.cj.util.CheckController.java 에 check5의 요청 컨트롤러 작성하기



```
70     userValidator.validate(member, result);
71
72     if(result.hasErrors()) {
73         page = "check/error4";
74     }
75     return page;
76 }
77
78 @InitBinder
79 protected void initBinder(WebDataBinder binder) {
80     binder.setValidator(new MemberValidator());
81 }
82
83 @RequestMapping(value="check5", method = RequestMethod.GET)
84 public String getCheck5(HttpServletRequest request, Model model) throws Exception {
85     return "check/check5";
86 }
87
88 //Validator에 의한 검증(@Valid+@InitBinder)
89 @RequestMapping(value="check5", method = RequestMethod.POST)
90 public String postCheck5(@ModelAttribute("member") @Valid Member member, Model model, BindingResult
91
92     String path = "check/result5";
93     if(result.hasErrors()) {
94         path = "check/error5";
95     }
96     return path;
97 }
98 }
```


6-1. Hibernate 와 spring form에 의한 검증

pro04/src/main/webapp/WEB-INF/views/check/check6.jsp를 작성

```
jsp - Spring Tool Suite 3
Window Help

CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp

1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <%@ taglib prefix="spring" uri="http://www.springframework.org/tags" %>
7 <%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>
8 <c:set var="path1" value="${pageContext.servletContext.contextPath }" />
9 <!DOCTYPE html>
10 <html>
11 <head>
12   <meta charset="UTF-8">
13   <meta http-equiv="X-UA-Compatible" content="IE=edge">
14   <meta name="viewport" content="width=device-width, initial-scale=1.0">
15   <title>폼 유효성 검사6</title>
16 </head>
17 <body>
18   <h2>FORM 유효성 검사6</h2>
19   <form:form action="${path1 }/check/check6.do" method="post" modelAttribute="memberVO">
20     <form:input path="id"/>
21     <form:errors path="id" element="div" delimiter=" " />
22
23     <form:password path="pw"/>
24     <form:errors path="pw" element="div" delimiter=" " />
25
26     <button class="btn" type="submit"> 전송 </button>
27   </form:form>
28 </body>
29 </html>
```

6-2. 결과 페이지인 pro04/src/main/webapp/WEB-INF/views/check/result6.jsp 작성

```
jsp - Spring Tool Suite 3
Window Help

CheckController2.java check6.jsp pro04/pom.xml MemberVO.java result6.jsp

1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>결과6</title>
13 </head>
14 <body>
15   <h2>결과6</h2>
16   <div>
17     <p>${memberVO.id }</p>
18     <p>${memberVO.pw }</p>
19   </div>
20 </body>
21 </html>
```

6-3. 예러 페이지인 pro04/src/main/webapp/WEB-INF/views/check/error6.jsp를 작성

```
jsp - Spring Tool Suite 3
Window Help

CheckController2.java pro04/pom.xml MemberVO.java result6.jsp error6.jsp

1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4 <%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
5 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"%>
6 <!DOCTYPE html>
7 <html>
8 <head>
9   <meta charset="UTF-8">
10  <meta http-equiv="X-UA-Compatible" content="IE=edge">
11  <meta name="viewport" content="width=device-width, initial-scale=1.0">
12  <title>에러 페이지6</title>
13 </head>
14 <body>
15   <h2>에러페이지6</h2>
16   <div>
17     <p>아이디 또는 비밀번호를 입력하지 않으셨거나 비밀번호 형식이 잘못되었습니다.</p>
18   </div>
19 </body>
20 </html>
```

6-4. pro04/src/main/java/com.cj.util.CheckController2.java 에 check6의 요청 컨트롤러 작성하기

```
Spring Tool Suite 3
Window Help
CheckController2.java pro04/pom.xml MemberVO.java result6.jsp error6.jsp
1 package com.cj.util;
2
3 import javax.servlet.http.HttpServletRequest;
18
19 //http://localhost:8092/check/
20 @Controller
21 @RequestMapping("/check/*")
22 public class CheckController2 {
23
24     @RequestMapping(value="check6", method = RequestMethod.GET)
25     public String getCheck6(MemberVO memberVO) throws Exception {
26         return "check/check6";
27     }
28
29     //Hibernate 와 spring form에 의한 검증
30     @RequestMapping(value="check6.do", method = RequestMethod.POST)
31     public String postCheck6(@Valid MemberVO memberVO, BindingResult result) throws Exception {
32
33         String path = "check/result6";
34         if(result.hasErrors()) {
35             path = "check/error6";
36         }
37         return path;
38     }
39 }
```

6-5. pro04/src/main/javacom.cj.util.MemberVO 작성

```
Spring Tool Suite 3
Window Help
CheckController2.java pro04/pom.xml MemberVO.java result6.jsp error6.jsp CheckController.java
3 import javax.persistence.Column;
10
11 public class MemberVO {
12
13     @Id //primary key인 필드에 지정
14     @Size(min=5, max =12, message="아이디는 5~12자로 작성해야함")
15     String id;
16
17     @Column
18     @NotNull
19     @Size(min=6, max =12, message="비밀번호는 8~12자로 작성해야함")
20     @Pattern(regexp="^[A-Za-z0-9]{8,12}$")
21     //((^(?=.*[A-Za-z])(?=.*[0-9])(?=.*[$!%*#?&])[A-Za-z[0-9]${!%*#?&}}{8,10}$)
22     String pw;
23
24     public String getId() {
25         return id;
26     }
27     public void setId(String id) {
28         this.id = id;
29     }
30     public String getPw() {
31         return pw;
32     }
33     public void setPw(String pw) {
34         this.pw = pw;
35     }
36 }
```