

# Project 2

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IntelliJ Ultimate 2017.1.3

Windows 10

To run this Project, simply unzip and import the main project directory “hello2” into your IDE. Then, ensure you have the server configured to deploy the “hello2:war exploded” artifact at launch.

## Contents

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# Changelog

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1. GreetingServlet.java
2. ResponseServlet.java

## GreetingServlet.java

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Left file: **Original** GreetingServlet.java

Right file: **Modified** GreetingServlet.java

```
27      public void doGet(HttpServletRequest request,  
28      HttpServletResponse response)  
27      public void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
38      out.println("<body bgcolor=\"#ffffff\">")  
37      out.println("<body bgcolor=\"#ffffff\">")
```

```
42      + "<h2>Hello, my name is Duke. What's yours?</h2>"
43      + "<input title=\"My name is: \" type=\"text\" \"
44      + \"name=\"username\" size=\"25\"/>"
42      + "<h2>Please take a brief moment to complete our Customer Survey!</h2>"
43      + "<b>First Name: </b>"
44      + "<input title=\"My first name is:
      \"type=\"text\"name=\"firstName\"size=\"25\"required=\"true\"/>"
45      + "<p></p>"
46      + "<b>Last Name: </b>"
47      + "<input title=\"My last name is:
      \"type=\"text\"name=\"lastName\"size=\"25\"required=\"true\"/>"
48      + "<p></p>"
49      + "<b>Email address: </b>"
50      + "<input title=\"My email address is:
      \"type=\"text\"name=\"email\"size=\"25\"required=\"true\"/>"
51      + "<select name=\"domain\">\n"
52      + "<option value=\"@outlook.com\">@outlook.com</option>\n"
53      + "<option value=\"@gmail.com\">@gmail.com</option>\n"
54      + "<option value=\"@yahoo.com\">@yahoo.com</option>\n"
55      + "<option value=\"@inbox.com\">@inbox.com</option>\n"
56      + "<option value=\"@icloud.com\">@icloud.com</option>\n"
57      + "<option value=\"@mail.com\">@mail.com</option>\n"
58      + "<option value=\"@aol.com\">@aol.com</option>\n"
59      + "<option value=\"\">other</option>\n"
60      + "</select>"
```

```
62     + "<b>Birth Date: </b>"
63     + "<input title=\"My birth month is:"
        "\"type=\"text\"name=\"month\"size=\"1\"maxlength=\"2\"required=\"true\"/>"
64     + " / "
65     + "<input title=\"My birth day is:"
        "\"type=\"text\"name=\"day\"size=\"1\"maxlength=\"2\"required=\"true\"/>"
66     + " / "
67     + "<input title=\"My birth year is:"
        "\"type=\"text\"name=\"year\"size=\"2\"maxlength=\"4\"required=\"true\"/>"
68     + "<p></p>"
```

```
50     String username = request.getParameter("username");
74     String firstName = request.getParameter("firstName");
```

```
51     if (username != null && username.length() > 0) {
83     if (firstName != null && firstName.length() > 0) {
```

---

## ResponseServlet.java

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Left file: **Original ResponseServlet.java**

Right file: **Modified ResponseServlet.java**

```
13    import java.time.LocalDateTime;
14    import java.time.format.DateTimeFormatter;
```

```
28    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("MM/dd/yyyy –
    HH:mm:ss");
```

```
31    String username = request.getParameter("username");
37    String firstName = request.getParameter("firstName");
38    String lastName = request.getParameter("lastName");
39    String email = request.getParameter("email");
40    String domain = request.getParameter("domain");
41    String month = request.getParameter("month");
42    String day = request.getParameter("day");
43    String year = request.getParameter("year");
```

```
46    LocalDateTime now = LocalDateTime.now();
47    out.println("<h2>Thanks for completing our Customer Survey form on " +
    dtf.format(now) + "</h2><p></p>"
48    + "<h3>The data you entered was:</h3><p></p>");
```

```
32     if (username != null && username.length() > 0) {
33         out.println("<h2>Hello, " + username + "!</h2>");
51     if (firstName != null && firstName.length() > 0) {
52         out.println("<b>First Name: </b>" + firstName + "<p></p>");
53     }
54     if (lastName != null && lastName.length() > 0) {
55         out.println("<b>Last Name: </b>" + lastName + "<p></p>");
56     }
57     if (email != null && email.length() > 0 && domain != null) {
58         out.println("<b>Email Address: </b>" + email + domain + "<p></p>");
59     }
60     if (month != null && month.length() == 2 && day != null && day.length() == 2 &&
        year != null && year.length() == 4) {
61         out.println("<b>Birth Date: </b>" + month + "/" + day + "/" + year + "<p></p>");
```

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# Final Product

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Upon starting up the server, the web browser should open with a page like this.



**Please take a brief moment to complete our Customer Survey!**

**First Name:**

**Last Name:**

**Email address:**  @outlook.com ▼

**Birth Date:**  /  /

As you can see, we are prompted to input some information into the various text boxes.





## Please take a brief moment to complete our Customer Survey!

**First Name:**

**Last Name:**

**Email address:** 

@outlook.com ▼

@outlook.com

@gmail.com

@yahoo.com

@inbox.com

@icloud.com

@mail.com

@aol.com

other

**Birth Date:**  /  /

On the email field I have decided to add a dropdown box for selecting the domain. If, for some reason, the person filling out the application doesn't have an email with any of the listed domains they are able to select other. We will come back to this after we complete this set of inputs, as this email has a "@gmail.com" ending.



## Please take a brief moment to complete our Customer Survey!

**First Name:**

**Last Name:**

**Email address:**

**Birth Date:**  /  /

Here, we have finished entering all our information into the form. I would also like to point out that I have restricted the input on the "Month" and "Day" sections on the "Birth Date" field to two characters. The "Year" section is restricted to four characters. I have also gone ahead and given all fields the "required" property as to enforce all fields to be filled before submitting the form.



**Please take a brief moment to complete our Customer Survey!**

First Name:

Last Name:

Email address:  @outlook.com ▼

Birth Date:  /  /

**Thanks for completing our Customer Survey form on 05/31/2017 - 03:25:41**

**The data you entered was:**

**First Name:** William

**Last Name:** Crutchfield

**Email Address:** halogamefreak81@gmail.com

**Birth Date:** 06/03/1997

After hitting the "Submit" button, we are then thanked for completing the survey, in addition to being given the date and time in which we filled the form out.



## Please take a brief moment to complete our Customer Survey!

**First Name:**

**Last Name:**

**Email address:**

**Birth Date:**  /  /

Now, if we had an email that was not one of the dropdown domains, we could select the other option. This allows us to enter any kind of domain, say a "umuc.edu" email address and will format the data accordingly.



**Please take a brief moment to complete our Customer Survey!**

First Name:

Last Name:

Email address:  @outlook.com ▼

Birth Date:  /  /

**Thanks for completing our Customer Survey form on 05/31/2017 - 03:43:10**

**The data you entered was:**

**First Name:** William

**Last Name:** Crutchfield

**Email Address:** wcrutchfield@student.umuc.edu

**Birth Date:** 06/03/1997

After clicking the "Submit" button we are, once again, thanked for completing the survey with the correctly formatted data.

# Lessons Learned

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The main thing I took away from this project was the fact that the development process for JSF and JSP applications are quite different and both have pros and cons. In my opinion, after working on the first two projects, I prefer JSF in terms of how it implements xhtml and the actual design aspect of an application. However, I thought it was rather cool how a JSP application can implement dynamic content, and I can see that as being a powerful tool.

Obviously there are quite a few differences between JSF and JSP applications, but as far as these two projects go, the design implementation was the most impactful difference between the two. Overall, I really enjoyed this project and it has really help open my mind to some of the possibilities of Java EE and using JSP applications to build dynamic web page applications.