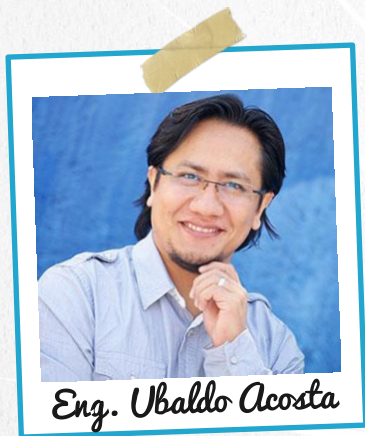


# HTML, CSS AND JAVASCRIPT COURSE

# FINAL FORM WITH HTML, CSS AND JAVASCRIPT



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By the expert: Ubaldo Acosta

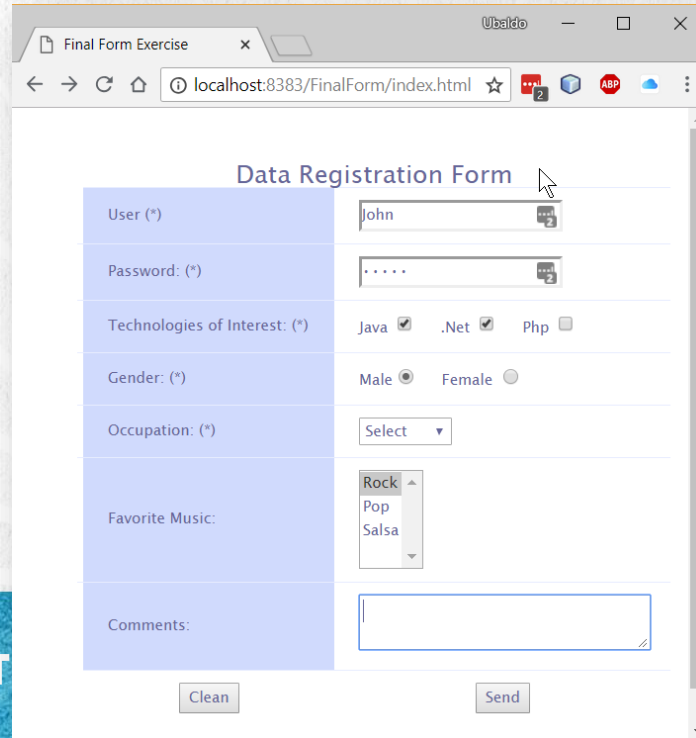


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# EXERCISE OBJECTIVE

Create a project with HTML, CSS and JavaScript to make a form that includes validations. At the end we will see:



The screenshot shows a web browser window titled 'Final Form Exercise' with the address bar displaying 'localhost:8383/FinalForm/index.html'. The page contains a 'Data Registration Form' with the following fields and controls:

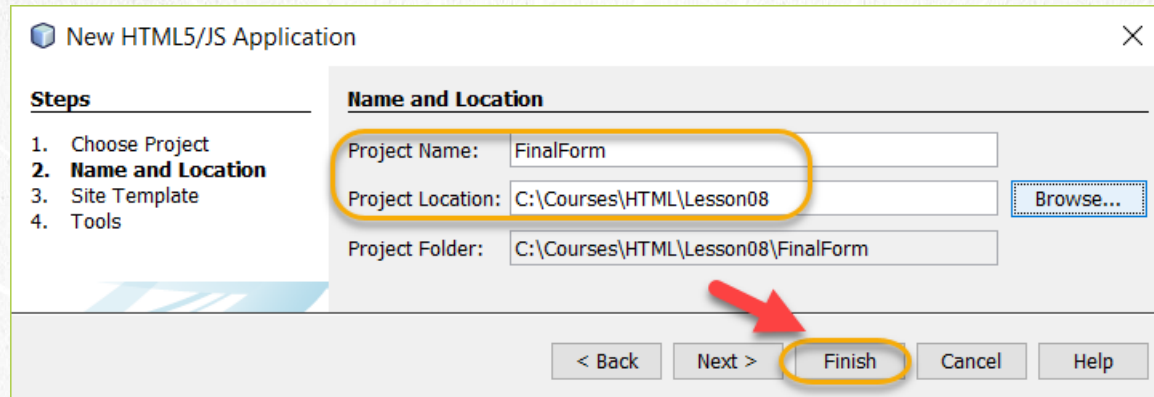
- User (\*):** A text input field containing 'John' with a red validation icon on the right.
- Password (\*):** A password input field with masked characters '.....' and a red validation icon on the right.
- Technologies of Interest (\*):** A group of checkboxes for 'Java' (checked), '.Net' (checked), and 'Php' (unchecked).
- Gender (\*):** Radio buttons for 'Male' (selected) and 'Female' (unchecked).
- Occupation (\*):** A dropdown menu currently showing 'Select'.
- Favorite Music:** A dropdown menu with 'Rock' selected, and 'Pop' and 'Salsa' visible in the list.
- Comments:** A large text area for input.

At the bottom of the form are two buttons: 'Clean' and 'Send'.



# 1. CREATE A NEW PROJECT

Create a new project:



**New HTML5/JS Application**

**Steps**

1. Choose Project
2. **Name and Location**
3. Site Template
4. Tools

**Name and Location**

Project Name: FinalForm

Project Location: C:\Courses\HTML\Lesson08 Browse...

Project Folder: C:\Courses\HTML\Lesson08\FinalForm

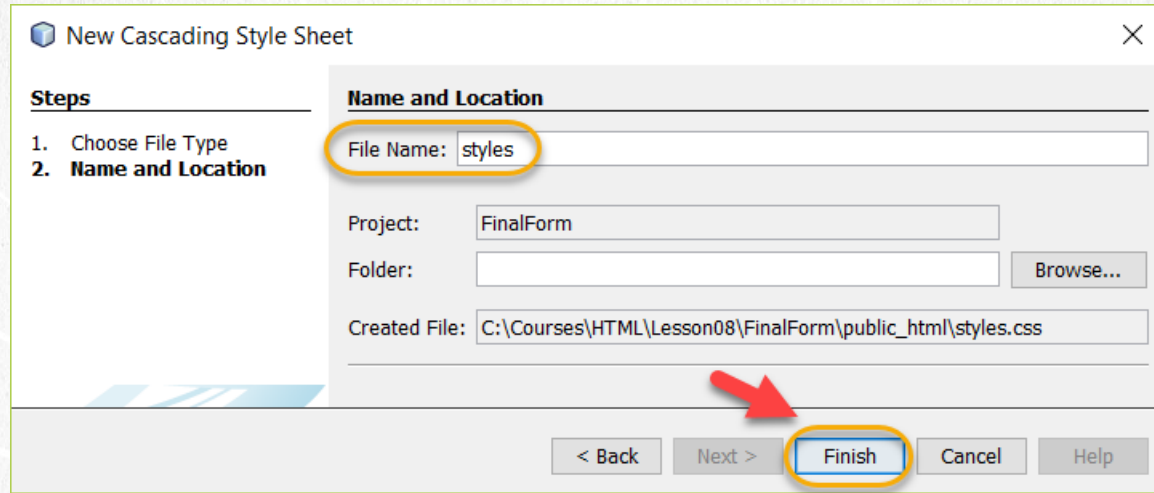
< Back   Next >   **Finish**   Cancel   Help

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## 2. CREATE A NEW FILE

Create a new CSS file called styles.css:



**New Cascading Style Sheet**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Folder:

Created File:

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### 3. MODIFY THE FILE

#### styles.css:

```
body, .default {  
  line-height: 1.6em;  
  font-family: "Lucida Sans Unicode", "Lucida Grande", Sans-Serif;  
  font-size: 12px;  
  color: #669;  
}  
  
#one-column-emphasis  
{  
  margin: 45px;  
  width: 480px;  
  text-align: left;  
  border-collapse: collapse;  
}  
  
#one-column-emphasis caption  
{  
  font-size: 20px;  
}  
  
#one-column-emphasis th  
{  
  font-size: 14px;  
  font-weight: normal;  
  padding: 12px 15px;  
  color: #039;  
}
```



### 3. MODIFY THE FILE

styles.css:

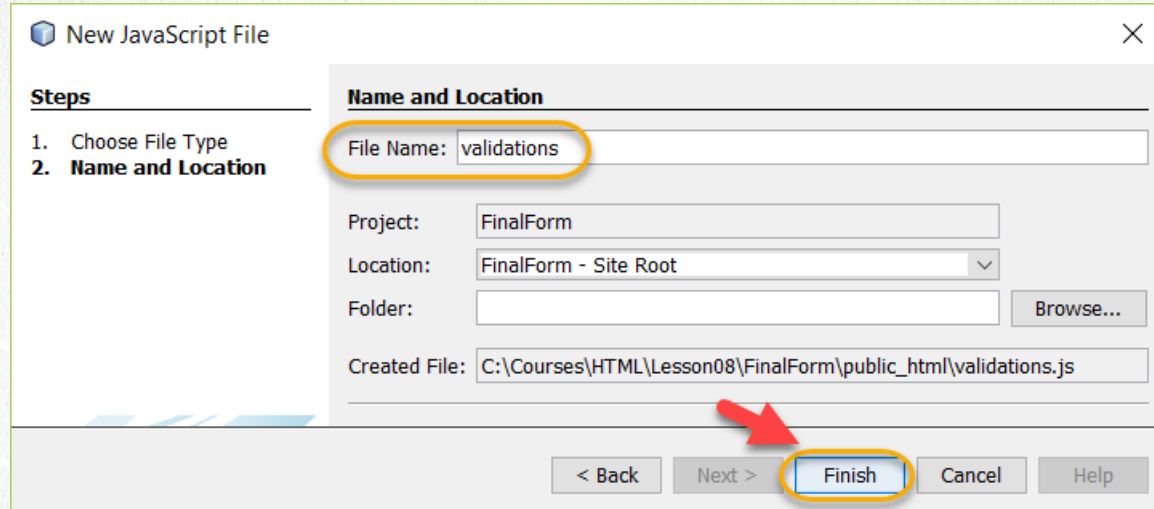
```
#one-column-emphasis td
{
    padding: 10px 15px;
    color: #669;
    border-top: 1px solid #e8edff;
}

.occ-first
{
    background: #d0dafd;
    border-right: 10px solid transparent;
    border-left: 10px solid transparent;
}

#one-column-emphasis tr:hover td
{
    color: #339;
    background: #eff2ff;
}
```

## 4. CREATE A NEW FILE

Create a new JavaScript file called validations.js:



**New JavaScript File**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Location:

Folder:

Created File:

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## 5. MODIFY THE FILE

### validations.js:

```
/**
 * @author ubaldo
 */
/**
 * Function to validate the required elements (*)
 * @param {Object} form
 */
function validateForm(form) {
    //validate the user
    var user = form.user;
    if (user.value == "" || user.value == "Write the user") {
        alert("You must provide a username");
        user.focus();
        user.select();
        return false;
    }

    //Validate the password
    var password = form.password;
    if (password.value == "" || password.value.length < 3) {
        alert("You must provide a password of at least 3 characters");
        password.focus();
        password.select();
        return false;
    }
}
```



## 5. MODIFY THE FILE

### validations.js:

```
//Validate the technologies of interest
var technologies = form.technology;
var selectedCheck = false;

//Check if a checkbox is selected
for (i = 0; i < technologies.length; i++) {
    if (technologies[i].checked) {
        selectedCheck = true;
        break;
    }
}
if (!selectedCheck) {
    alert("Must provide a Technology");
    return false;
}
```

## 5. MODIFY THE FILE

### validations.js:

```
//Validate the Gender
var genders = form.gender;
var selectedRadio = false;

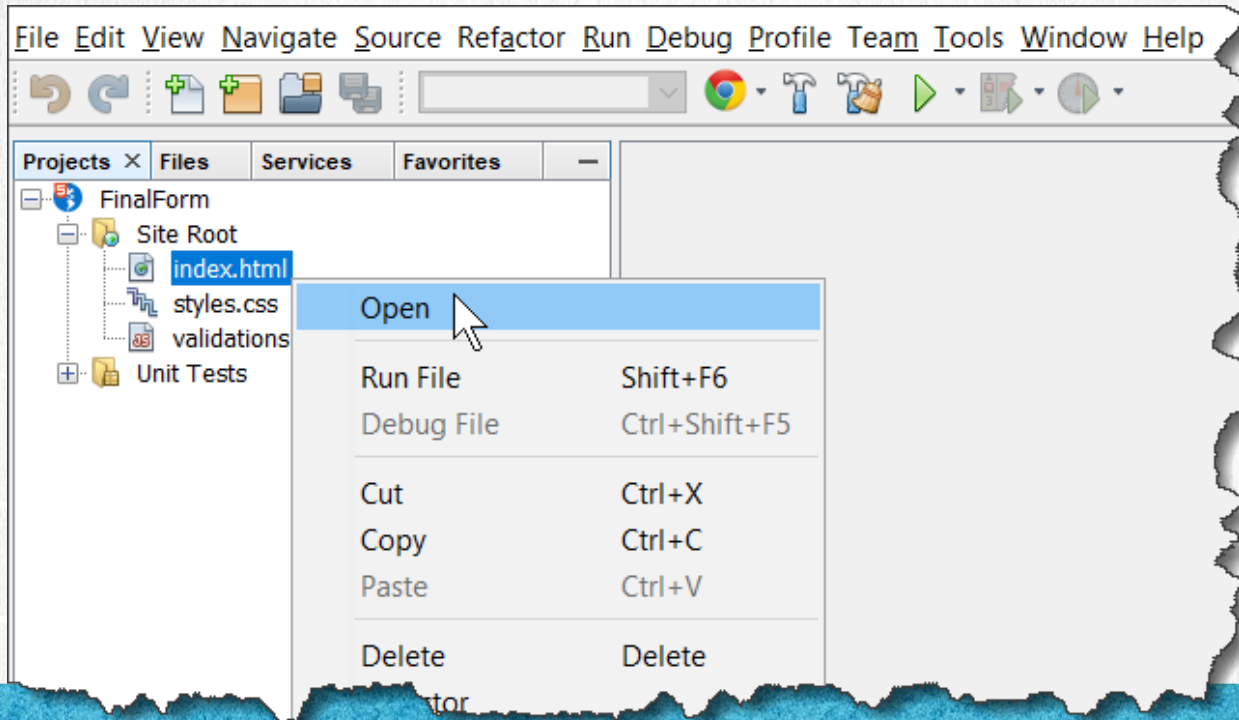
//check if a radiobutton is selected
for (i = 0; i < genders.length; i++) {
    if (genders[i].checked) {
        selectedRadio = true;
        break;
    }
}
if (!selectedRadio) {
    alert("You must select the Gender");
    return false;
}

//validate the occupation
var occupation = form.occupation;
if (occupation.value == "") {
    alert("You must select an occupation");
    return false;
}

//Validated form
alert("Valid form, sending data to the server...");
return true;
}
```

## 6. MODIFY THE FILE

Modify the index.html file:



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# 6. MODIFY THE FILE

## index.html:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Final Form Exercise</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
    <script type="text/javascript" src="validations.js"></script>
  </head>
  <body>
    <form name="form1" action="/resourceOnServer"
      method="post" onsubmit="return validateForm(this);">

      <input type="hidden" name="hidden" value="hiddenValue">

      <table width="200" id="one-column-emphasis">
        <caption>
          Data Registration Form
        </caption>
        <tr>
          <td class="oce-first">
            User (*)
          </td>
          <td>
            <input class="default" type="text"
              name="user" value="Write the user"
              onfocus="this.select();" />
          </td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

index.html:

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index.html:

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## 6. MODIFY THE FILE

index.html:

```
<tr>
  <td class="oce-first">
    Favorite Music:
  </td>
  <td>
    <select name="music" multiple class="default">
      <option value="rock">Rock</option>
      <option value="pop">Pop</option>
      <option value="salsa">Salsa</option>
    </select>
  </td>
</tr>
<tr>
  <td class="oce-first">
    Comments:
  </td>
  <td>
    <textarea name="comments" cols="30" rows="2"
      class="default" onfocus="this.select();">
      Write a text</textarea>
  </td>
</tr>
```

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## 6. MODIFY THE FILE

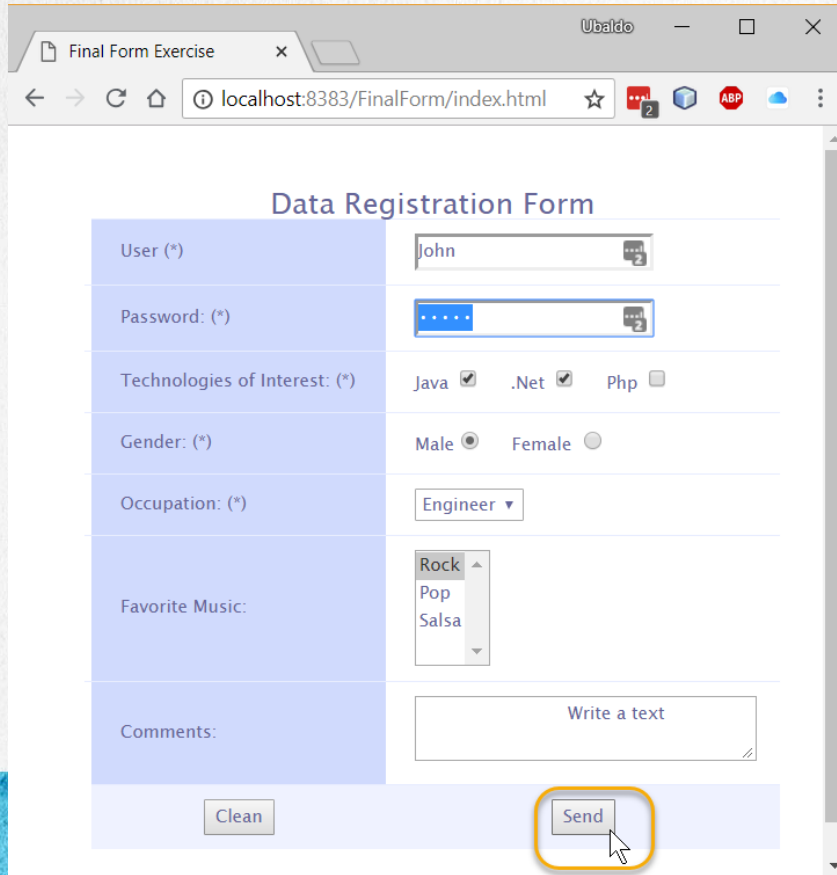
index.html:

```
<tr style="text-align:center;">
  <td>
    <input type="reset" value="Clean" class="default">
  </td>
  <td>
    <input type="submit" value="Send" class="default">
  </td>
</tr>
</table>
</form>
</body>
</html>
```

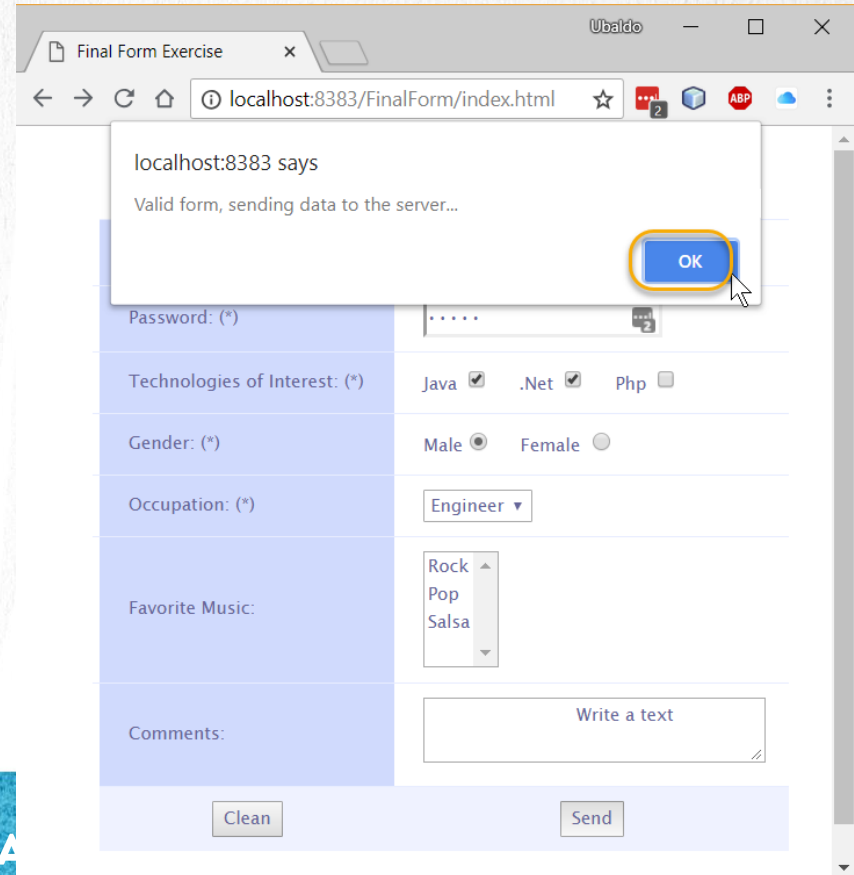
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# 7. EXECUTE THE PROJECT



A web browser window titled 'Final Form Exercise' shows a 'Data Registration Form' at 'localhost:8383/FinalForm/index.html'. The form has several fields: 'User (\*)' with 'John', 'Password (\*)' with masked characters, 'Technologies of Interest (\*)' with checkboxes for Java, .Net, and Php, 'Gender (\*)' with radio buttons for Male and Female, 'Occupation (\*)' with a dropdown menu showing 'Engineer', 'Favorite Music:' with a dropdown menu showing 'Rock', 'Pop', and 'Salsa', and 'Comments:' with a text area containing 'Write a text'. At the bottom, there are 'Clean' and 'Send' buttons. The 'Send' button is highlighted with an orange circle and a mouse cursor is pointing at it.

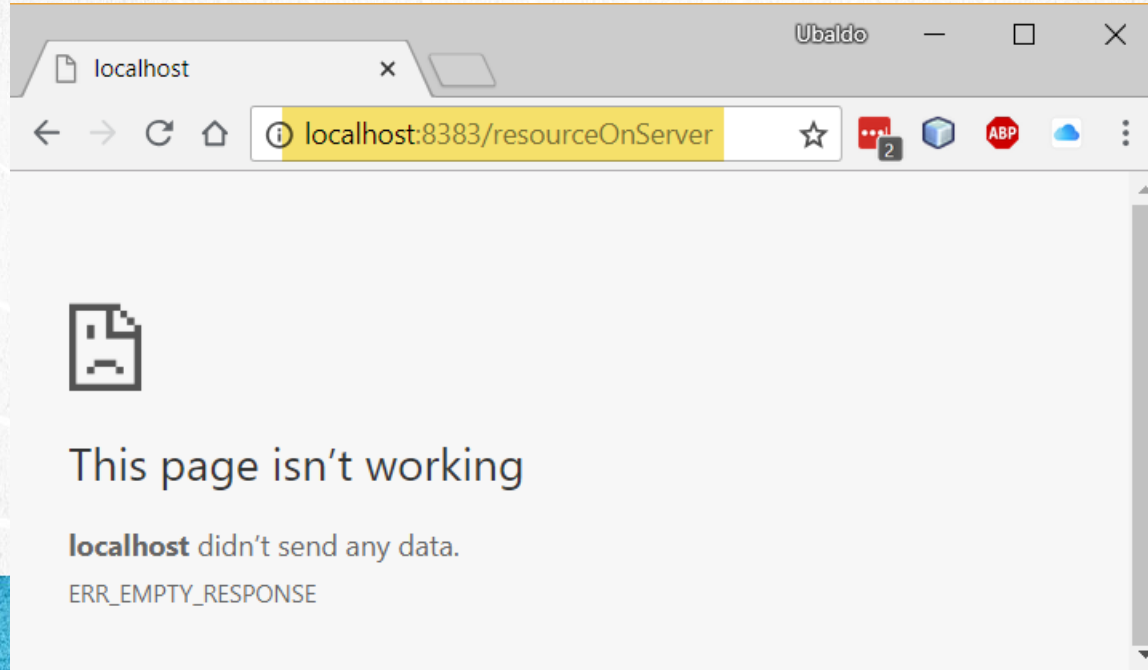


The same web browser window is shown, but now a dialog box is displayed over the form. The dialog box has the title 'localhost:8383 says' and the message 'Valid form, sending data to the server...'. It has an 'OK' button, which is highlighted with an orange circle and a mouse cursor is pointing at it. The form fields are partially visible behind the dialog box.



## 7. EXECUTE THE PROJECT (CONT)

The resource on the server is the one that we will perform in the course of Servlets and JSPs, since it is the technology that we will use on the server side:



# EXERCISE CONCLUSION

With this exercise we have put into practice the three technologies we studied in this course.

HTML, CSS and JavaScript combined allow us to create much more complete and robust Web pages, and thus provide better Web systems to our end users.



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