FINAL FORM WITH HTML, CSS AND JAVASCRIPT

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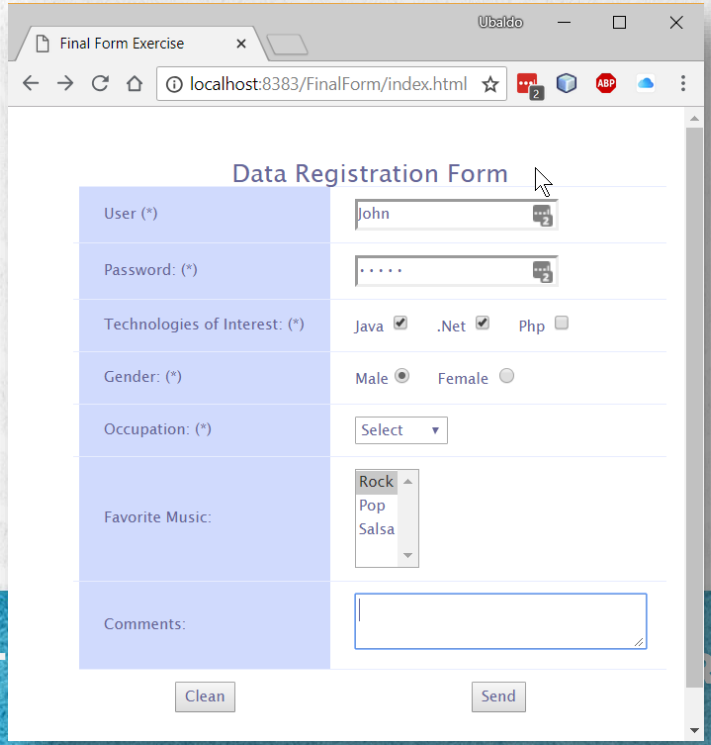
Global Mentoring

JAVA ONLINE COURSES UNIVERSITY

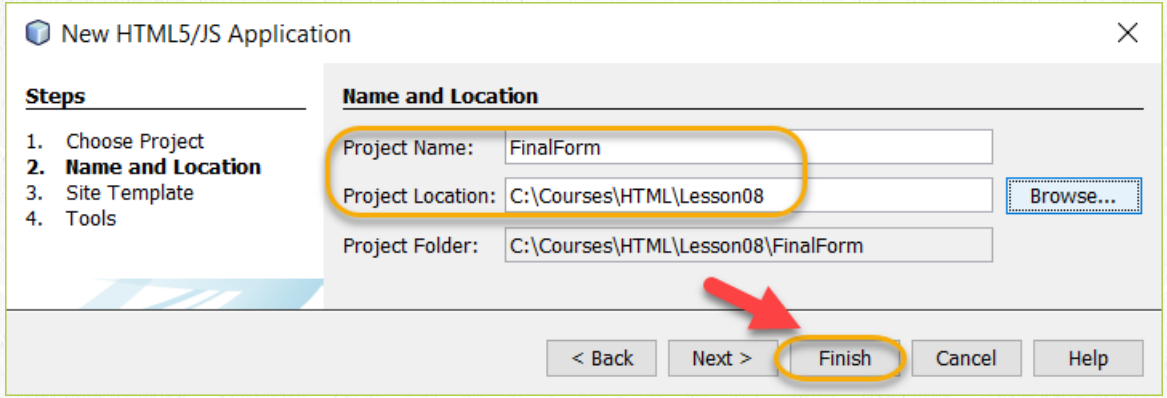
EXERCISE OBJECTIVE

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



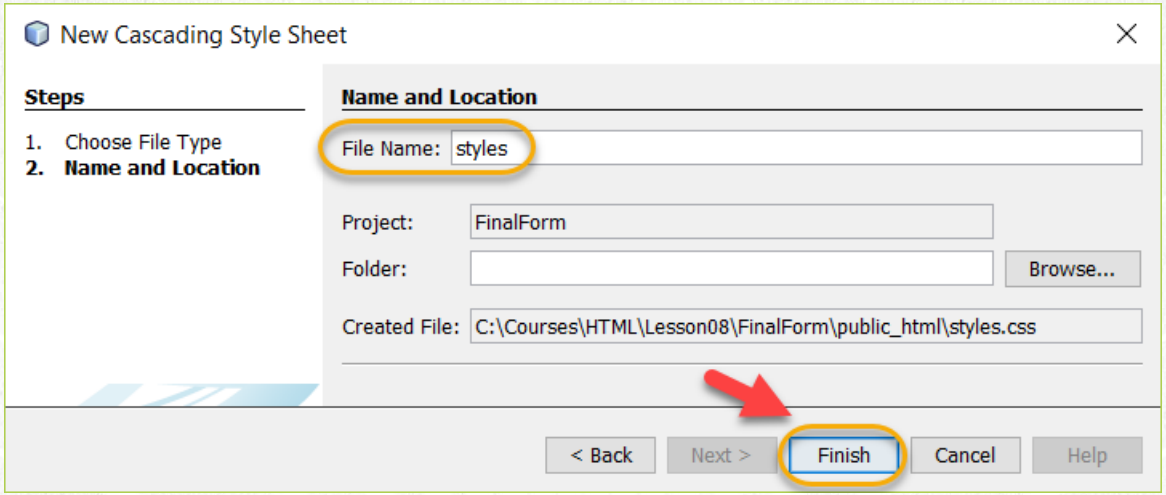
1. CREATE A NEW PROJECT

Create a new project:



2. CREATE A NEW FILE

Create a new CSS file called styles.css:



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;
}
```

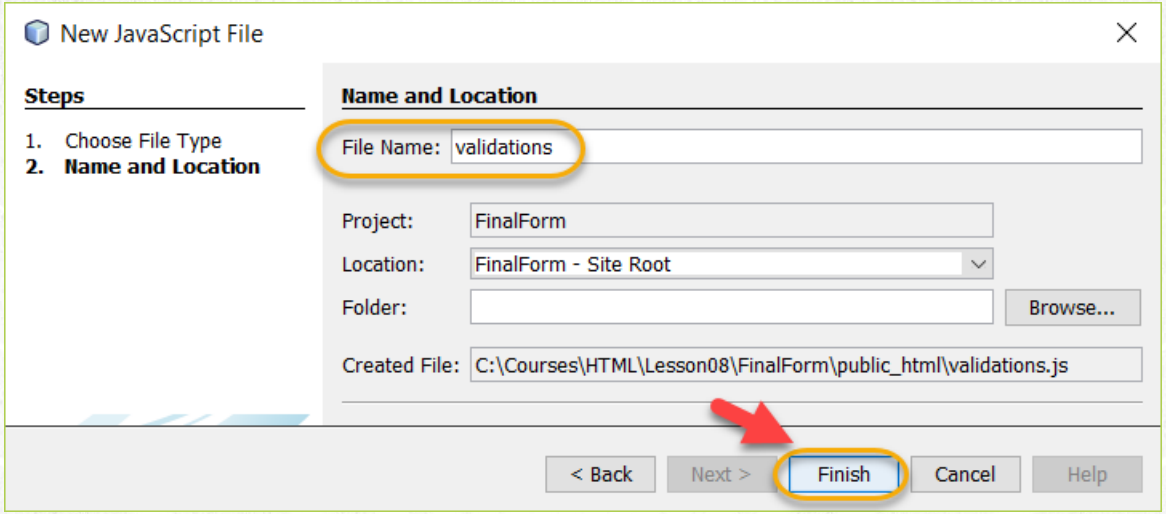
3. MODIFY THE FILE

styles.css:

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

.oce-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:



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;
}
```

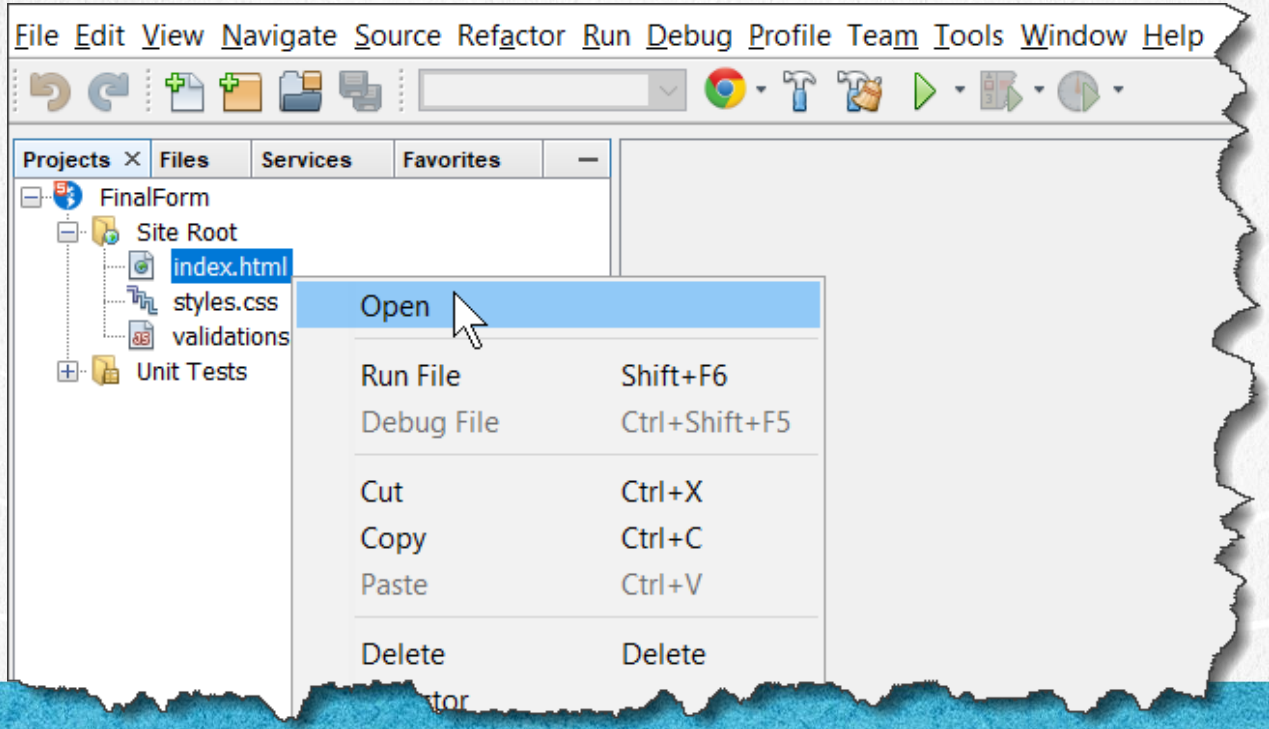
5. MODIFY THE FILE

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:



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>
```

6. MODIFY THE FILE

index.html:

```
<tr>
    <td class="oce-first">
        Password: (*)
    </td>
    <td>
        <input class="default" type="password"
               name="password" onfocus="this.select();">
    </td>
</tr>
<tr>
    <td class="oce-first">
        Technologies of Interest: (*)
    </td>
    <td>
        Java <input type="checkbox" name="technology" value="java">
           
        .Net <input type="checkbox" name="technology" value="net">
           
        Php <input type="checkbox" name="technology" value="php">
    </td>
</tr>
```

6. MODIFY THE FILE

index.html:

```
<tr>
    <td class="oce-first">
       Gender: (*)
    </td>
    <td>
        Male<input type="radio" name="gender" value="H">
           
        Female <input type="radio" name="gender" value="M">
    </td>
</tr>
<tr>
    <td class="oce-first">
        Occupation: (*)
    </td>
    <td>
        <select name="occupation" class="default">
            <option value="">Select</option>
            <option value="1">Teacher</option>
            <option value="2">Engineer</option>
            <option value="3">Doctor</option>
            <option value="4">Other</option>
        </select>
    </td>
</tr>
```

6. MODIFY THE FILE

index.html:

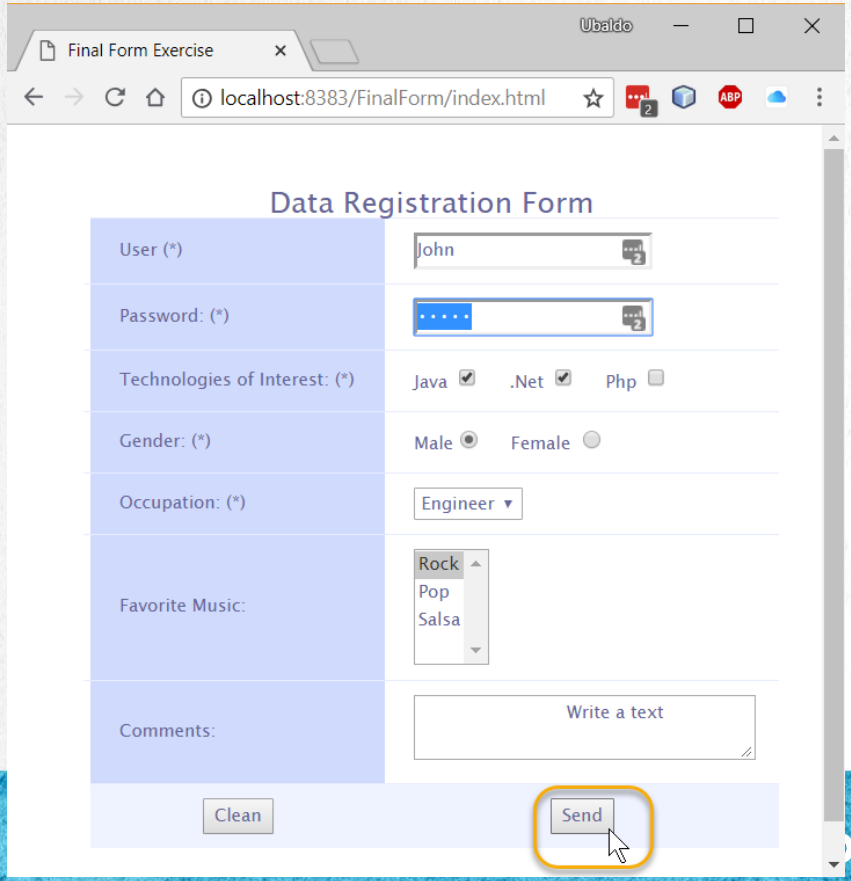
```
<tr>
    <td class="oce-first">
        Favorite Music:
    </td>
    <td>
        <select name="music" multiple class="default">
            <option value="rock">Rock</option>
            <option value="pop">Pop</option>
            <option value="salsa">Salsa</option>
        </select>
    </td>
</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>
```

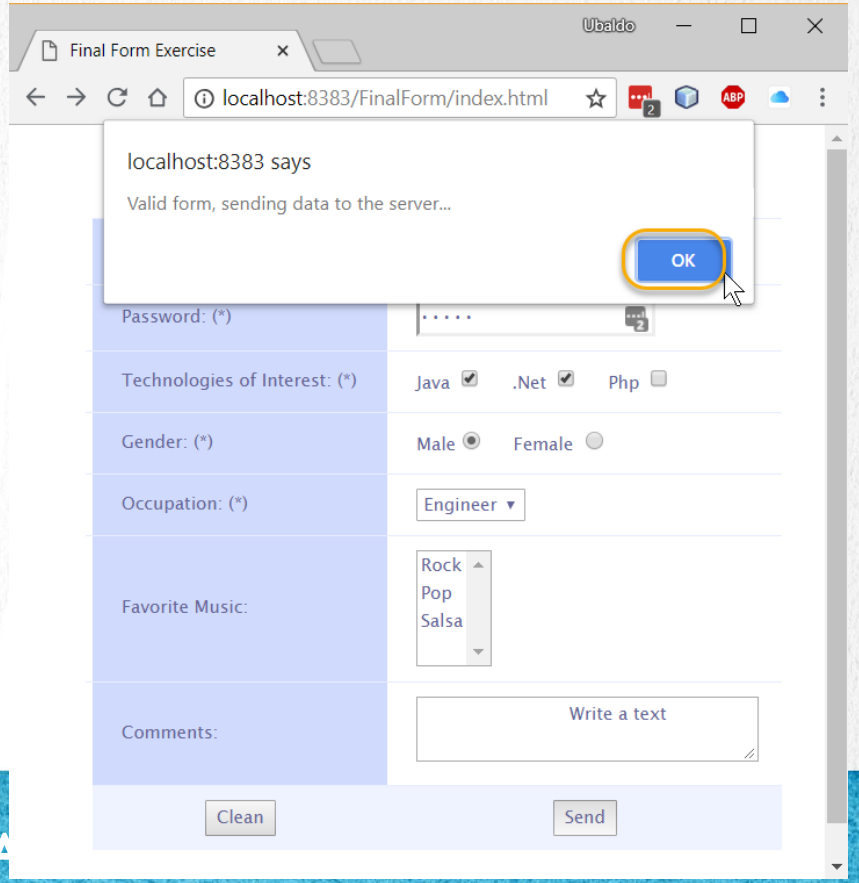
6. MODIFY THE FILE

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>
```

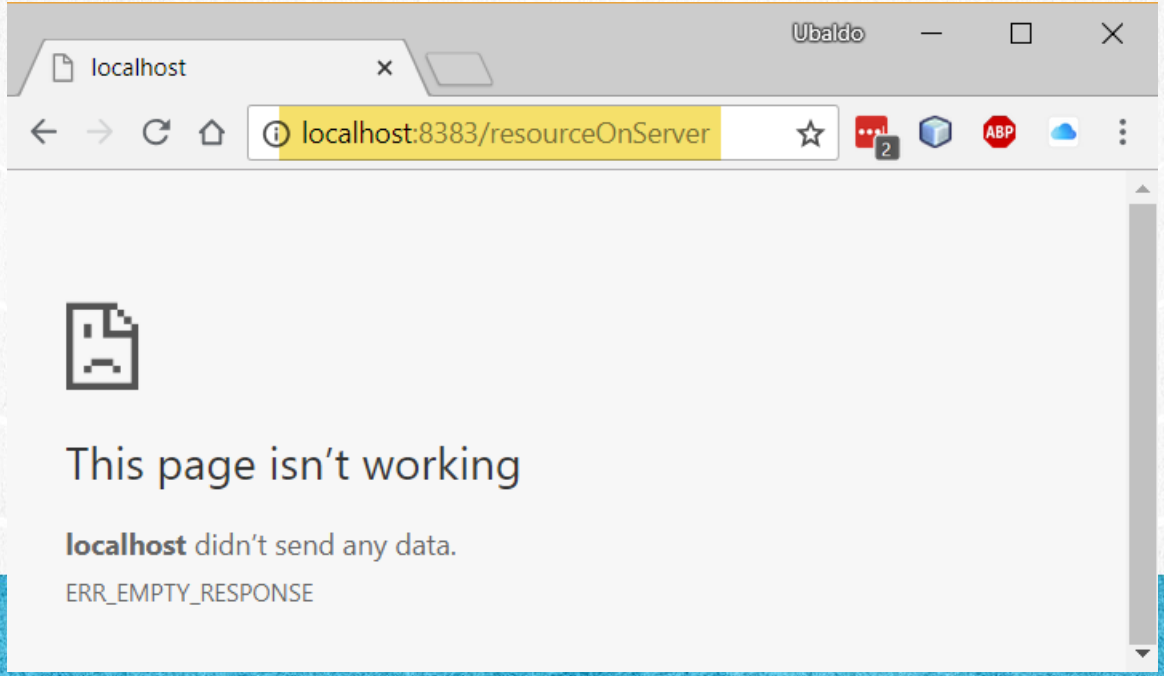
7. EXECUTE THE PROJECT





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.

ONLINE COURSE

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