

### AIT-Lab-05 (Exercises 12, 13a, 13b) By Amir Ebrahimi

The first step is to create a form in the HTML. For each input, type, name, placeholder, and required or optional should be considered.

```
<form action="registration.php" method="get">
  Enter your information:<br>

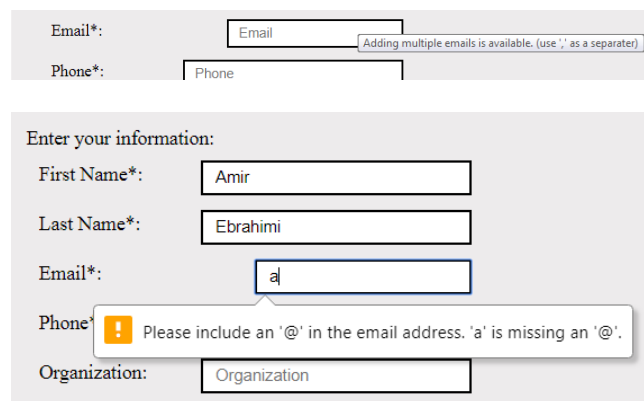
  <div class="class1">
    <label>First Name*:</label>
    <input type="text" name="First_Name" placeholder="First Name" required>
  </div>

  <div class="class1">
    <label>Last Name*:</label>
    <input type="text" name="Last_Name" placeholder="Last Name" required>
  </div>
```



For email, type of email is used. Also user can add some emails. Hence multiple should be used. As well a title is used for guiding the user.

```
<div class="class1">
  <label>Email*:</label>
  <input name="email" type="Email" placeholder="Email" title="Adding multiple emails is available. (use ',' as a separator)" required multiple>
</div>
```



For phone, type of number is used, and with CSS It is tried to remove the arrows in the input.

```
<div class="class4">
  <label>Phone*:</label>
  <input type="number" name="Phone" placeholder="Phone" required>
</div>

<div class="class1">
  <label>Organization:</label>
  <input type="text" name="Organization" placeholder="Organization">
</div>
```

```

<style>
.class4 input[type=number]::-webkit-inner-spin-button,
.class4 input[type=number]::-webkit-outer-spin-button {
-webkit-appearance: none;
margin: 0;
}

```

Phone\*:

Organization:

For address, textarea tag is used instead of input. We can assign the width and height with rows and cols in the tag.

```

<div class="class2">
<label>Address*:</label>
<textarea type="text" name="Address" placeholder="Address" rows="4" cols="50" required></textarea>
</div>

```

```

textarea {
clear: left;
width: 85%;
float: right;
margin-bottom: 10px;
padding: 5px;
padding-left: 10px;
border-style: outset;
border-color: black;
}

```

Address\*:

The next input is for url.

```

<div class="class1">
<label>URL Homepage:</label>
<input name="URL" type="url" placeholder="URL Homepage">
</div>

```

URL Homepage:

City\*:

Zip Code\*:

The next input is related to the city. List and datalist are used. The valid values are defined in the option tags.

```
<div class="class1">
  <label>City*:</label>
  <input type="text" name="City" placeholder="Choose here" list="cities" required>
  <datalist id="cities">
    <option value="Bolzano">Bolzano</option>
    <option value="Bressanone">Bressanone</option>
    <option value="Brunico">Brunico</option>
  </datalist>
</div>
```

The type of number is used for zip code input but a pattern which contains five digits starting with 39 is used.

```
<div class="class1">
  <label>Zip Code*:</label>
  <input name="Zip_code" type="number" placeholder="39xxx" pattern="39[0-9]{3}" title="Zip code should contain 5 digits starting with 39. e.g. 39100" required>
</div>
```

Next part is related to the method of payment. Radio is used, and also it is required.

```
<div class="class3">
  <label>Payment Mode*:</label>
  <br>
  <div>
    <label>Cash</label>
    <input type="radio" name="Payment_Mode" value="Cash" required>
    <br>
    <label>Paypal</label>
    <input type="radio" name="Payment_Mode" value="Paypal">
    <br>
    <label>Credit Card</label>
    <input type="radio" name="Payment_Mode" value="CreditCard">
    <br>
  </div>
</div>
```

Next part is for amount of payment. As it is said in the instruction the limitation should be considered. Hence the min and max must be declared in the tag. Before I used the type of range but I think this one is more appropriate for this purpose.

```
<div class="class5">
<label>Total to Pay*:</label>
<input name="Total_to_Pay" type="number" min="10" max="150" step=".01" placeholder="Amount in Euro" required>
</div>
```

For start date, type of date is used.

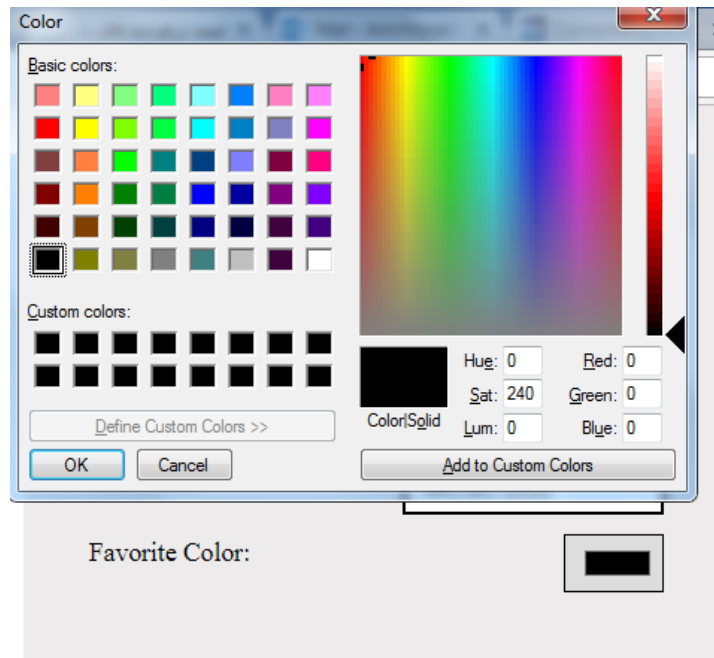
```
<div class="class1">
<label>Start Date:</label>
<input name="Start_Date" type="date">
</div>
```

For the favorite color, two inputs and a button are used. One of the inputs is not displayed for the user. It is for this point that as if the user wants to choose color or not. If not the value of the null should be shown in the next page not the default of the input with the color type. The button is used for showing that input. Also JavaScript is used.

```
<div class="class6">
<label>Favorite Color:</label>
<br>
<button type="button" id="colorBoxButton" onclick="myFunction()">Choose</button>
<input type="text" id="colorChosen" name="colorChosen" value="0"></input>
<input id="colorBox" name="Favorite_Color" style="display: none;" type="color">
</div>

<input value="Ok" type="submit">
</form>
<script>
window.onload = function() {
    document.getElementById('colorChosen').style.display = 'none';
};
function myFunction() {
    document.getElementById("colorBox").style.display = "block";
    document.getElementById("colorBoxButton").style.display = "none";
    document.getElementById("colorChosen").value = "1";
}
</script>
```

Favorite Color:



In this way we can get the hash code for the preferable color that the user selects; although, if we have the big information system the comparison between the colors that they choose is partly hard. Hence we can use radio button or datalist as they are used for the payment mode and the cities.

The css code:

```
<style>
.class4 input[type=number]::-webkit-inner-spin-button,
.class4 input[type=number]::-webkit-outer-spin-button {
  -webkit-appearance: none;
  margin: 0;
}

input[type=number], input[type=text] {
  width: 200px;
}

input {
  clear: left;
  margin-top: -21px;
  float: right;
  padding: 5px;
  padding-left: 10px;
  border-style: outset;
  border-color: black;
}

input[type=submit] {
  margin-bottom: 150px;
}

select {
  clear: left;
  margin-top: -21px;
  float: right;
}
```

```
label {
    clear: right;
    float: left;
}

textarea {
    clear: left;
    width: 85%;
    float: right;
    margin-bottom: 10px;
    padding: 5px;
    padding-left: 10px;
    border-style: outset;
    border-color: black;
}

.class1, .class4, .class5 {
    width: 350px;
    height: 30px;
    margin: 10px;
}

.class2 {
    width: 350px;
    height: 90px;
    margin: 10px;
}

.class3 {
    width: 350px;
    height: 80px;
    margin: 10px;
}
```

```
.class6 {  
    width: 350px;  
    height: 180px;  
    margin: 10px;  
    margin-top: 16px;  
}  
  
form {  
    background: #82707624;  
    padding: 30px;  
}  
  
button {  
    width: 70px;  
    height: 20px;  
    clear: left;  
    margin-top: -21px;  
    float: right;  
}  
/style>
```

Php code:

At first, we should get the url in order to get the values (\$\_SERVER["QUERY\_STRING"]). Also, we need an array for names and values. (parse\_str, and parse\_url).



```

<?php
$url = $_SERVER["QUERY_STRING"];
$array = parse_url($url);
parse_str($url, $array);
$keys = array_keys($array);
$i = 0;
$chosenColor = 0;
echo "<article>";
echo "<header>Registration by PHP</header><section><table>";
while($i<sizeof($array))
{
    if(!strcmp($keys[$i], "colorChosen"))
    {
        if(!strcmp($_GET[$keys[$i]], "1"))
        {
            $chosenColor = 1;
        }
    }
    $i++;
}
$i = 0;

```

chosenColor is used for color.

```

while($i<sizeof($myArray))
{
    if(strcmp($keys[$i], "colorChosen"))
    {
        echo "<tr><td>" . $keys[$i] . "</td>";
        if($chosenColor == 0)
        {
            if(strlen($_GET[$keys[$i]]) != 0)
            {
                if(!strcmp($keys[$i], "Favorite_Color"))
                {
                    echo "<td>Null Value</td>";
                }
                else{
                    echo "<td>" . $_GET[$keys[$i]] . "</td></tr>";
                }
            }
            else{
                echo "<td>Null Value</td>";
            }
        }
        else{
            if(strlen($_GET[$keys[$i]]) != 0)
            {
                echo "<td>" . $_GET[$keys[$i]] . "</td></tr>";
            }
            else{
                echo "<td>Null Value</td>";
            }
        }
    }
    $i++;
}

}
echo "</table></section><footer>Registration is done on " . date("d/m/y", time()) . " at " . date("h:mA") . "</footer></article>";
?>
</html>

```

The css code in the php file:

```
<style>
table {
  background: #f3f3f3;
  color: black;
  width: 80%;
  height: 100%;
  padding: 5px 5px 5px 5px;
  margin: 0 auto;
  border: 1px;
  border-collapse: collapse;
}

tr {
  text-align: center;
}

tr:hover {
  background: black;
  color: white;
}

td:first-child
{
  width: 100px;
}

header, footer {
  background: black;
  color: white;
  padding: 20px;
  text-align: center;
}

td {
  border: 1px solid black;
}
```

Output by php:

Registration by PHP	
First_Name	Amir
Last_Name	Ebrahimi
email	aebrahimi@unibz.it
Phone	369852147
Organization	Null Value
Address	UniverCity, Viale Druso
URL	Null Value
City	Bolzano
Zip_code	39100
Payment_Mode	CreditCard
Total_to_Pay	10
Start_Date	2018-04-11
Favorite_Color	Null Value
Registration is done on 11/04/18 at 11:04AM.	

Java:

```

93 <form action="registrationServlet" method="get">
94   Enter your information:<br>
95
96 <div class="class1">
97   <label>First Name*:</label>
98   <input type="text" name="First_Name" placeholder="First Name" required>
99 </div>

```

getting the url in Java is accessible by getQueryString. Just we should regard '&' and '=' as separators.

```

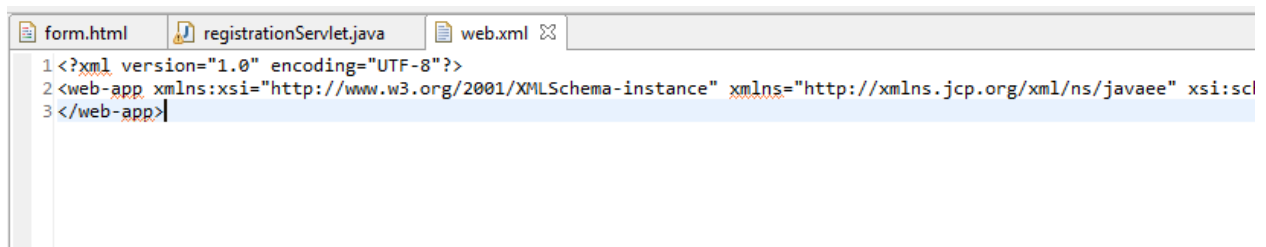
22 protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
23     response.setContentType("text/html");
24     PrintWriter out = response.getWriter();
25
26
27     String queryString = request.getQueryString();
28     String[] params = queryString.split("&");
29

```

```

        out.println("<article>");
        out.println("<header>Registration by Java</header><section>");
        for(String param : params)
        {
            String name = param.split("=")[0];
            int paramLength = param.length();
            int nameLength = name.length();
            if(paramLength > nameLength + 1)
            {
                String value = param.split("=")[1];
                out.println(name + ": " + value + "</br>");
            }
            else
            {
                out.println(name + ": null" + "</br>");
            }
        }
        out.println("</section></article>");
    }
}

```



Enter your information:

First Name\*:

Last Name\*:

This is a required field

Email\*:

Phone\*:

Organization:

Address\*:

URL Homepage:

City\*:

Zip Code\*:

Payment Mode\*:

Cash

☒

Paypal

☐

form.html registrationServlet.java web.xml http://localhost:8081/Lab5/registrationServlet?First\_Name=Amir&Last\_Name=Ebrahimi&email=aebra...

http://localhost:8081/Lab5/registrationServlet?First\_Name=Amir&Last\_Name=Ebrahimi&email=aebra...@unibz.it&Phone=2864564&Organization=&Addr...

Registration by Java  
First\_Name: Amir  
Last\_Name: Ebrahimi  
email: aebrahami@unibz.it  
Phone: 2864564  
Organization: null  
Address: Viale+Druso  
URL: null  
City: Bolzano  
Zip\_code: 39100  
Payment\_Mode: Cash  
Total\_to\_Pay: 10  
Start\_Date: null  
colorChosen: 0  
Favorite\_Color: null