

## **ASSIGNMENT – 2**

### **REPORT**

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## INTRODUCTION

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The Assignment 2 includes the concepts of HTML, JavaScript and PHP to be applied for Form Validation. It includes a Registration Form done in Assignment 1, validating that form through HTML and JavaScript.

## VALIDATION THROUGH HTML

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HTML provides us an attribute ***“required”*** which provides an inbuilt functionality of validating every field.

The first field includes the **Name Field**.

```
<tr>
  <th>First Name:</th>
  <td><input type="text" placeholder="First Name" name="Fname" required></td>
</tr>
<tr>
  <th>Last Name:</th>
  <td><input type="text" placeholder="Last Name" name="Lname" required></td>
</tr>
```

*Figure 1: Name Validation*

The second field includes **Email Field**.

```
<tr>
  <th>Email:</th>
  <td><input type="email" placeholder="EmailId" required></td>
</tr>
```

*Figure 2: Email Validation*

The third field is the **Password & Confirm Password** field.

```
<tr>
  <th>Password:</th>
  <td><input type="password" placeholder="Password" required></td>
</tr>
<tr>
  <th>Confirm Password</th>
  <td><input type="password" placeholder="Confirm Password" required></td>
</tr>
```

Figure 3: Password Validation

This field is a “**Gender**” field.

[illegible]

Figure 4: Gender Validation

The “**Address**” field is of the type “text area”.

```
<tr>
  <th>Address:</th>
  <td><textarea rows="5" cols="40" name="address" required></textarea> </td>
</tr>
```

Figure 5: Address Validation

The next field is a **“Contact”** field where **the maxlength** property makes sure that the user cannot enter more than 10 numbers.

```
<tr>
  <th>Contact Number:</th>
  <td><input type="number" maxlength="10" minlength="10" required</td>
</tr>
```

*Figure 6: Contact Validation*

The **"Date of Birth"** field consists of three select tags for **Date**, **Month** and **Year**.

```
<tr>
  <th>Date of Birth:</th>
  <td>
    <select name="date" required>
      <option value="day" selected>DD</option>
      <option value="1">1</option>
      <option value="2">2</option>
      <option value="3">3</option>
      <option value="4">4</option>
      <option value="5">5</option>
      <option value="6">6</option>
      <option value="7">7</option>
      <option value="8">8</option>
      <option value="9">9</option>
```

Figure 7: Date Validation

```
<select name="month" required>
  <option value="month" selected>MM</option>
  <option value="january">January</option>
  <option value="february">February</option>
  <option value="march">March</option>
  <option value="april">April</option>
  <option value="may">May</option>
  <option value="june">June</option>
  <option value="july">July</option>
```

Figure 8: Month Validation

```
<select name="year" required>
  <option value="year" selected>YYYY</option>
  <option value="2020">2020</option>
  <option value="2019">2019</option>
  <option value="2018">2018</option>
  <option value="2017">2017</option>
  <option value="2016">2016</option>
  <option value="2015">2015</option>
  <option value="2014">2014</option>
```

Figure 9: Year Validation

The next field is “**Upload Photo**” field.

```
<tr>
  <th>Upload your Photo:</th>
  <td><input type="file" name="myfile" required></td>
</tr>
```

Figure 10: Upload File Validation

The next field is to “**Agree to the Terms and Conditions**”. It is of checkbox type.

```
<tr>
  <td>
    <input type="checkbox" value="terms_conditions" required>&nbsp;<b>I agree to the
    Company's Terms and Conditions</b>
  </td>
</tr>
```

Figure 13: Terms & Conditions Validation

**The Output if any field is left Unanswered: -**

## Register Here

First Name:

Last Name:

Email:

Password:

Confirm Password

Gender:

Qualification:

Address:

Contact Number:

Date of Birth:

Upload your Photo:

☐ I agree to the Company's Terms and Conditions

Submit

First Name

Please fill out this field.

Password

Confirm Password

☐ Male ☐ Female

☐ X ☐ XII

DD

MM

YYYY

Choose File

No file chosen

Reset

Figure 11: Final Output if the field remains Unanswered

## VALIDATION THROUGH JAVASCRIPT

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Validation using JavaScript makes us use the concept of Methods, Functions and Event Handling. It also includes use of “**Regular Expressions**” to define the pattern of every Field as per the choice of the Admin.

In the picture, given below, is a form tag which includes attribute such as **name**, **action**, **method** and **onsubmit()**.

The name attribute provides a name to the form, action means that where will the page be directed once the form is submitted and onsubmit() function includes JavaScript concepts to validate a form before it is submitted.

```
<form
  name="myForm"
  onsubmit="return validateBox()"
  method="POST"
  action="#"
  class="main_div"
>
```

For validating every field in the form, “**name**” attribute is to be provided to every field so that In the JavaScript file, every field can be accessed through its name as follows: -

**Validating the Name Fields-**

```

var first_pattern = /^[A-Z]{1,1}+([a-z])+$/
var last_pattern = /^[A-Z]{1,1}+([a-z])+$/

if (fname.value == "") {
    alert("Please provide your First Name");
    fname.focus();
    return false;
}
if (!first_pattern.test(fname.value)) {
    alert("Enter First Name with First letter as Capital");
    fname.focus();
    return false;
}
if (lname.value == "") {
    alert("Please provide your Last Name");
    lname.focus();
    return false;
}
if (!last_pattern.test(lname.value)) {
    alert("Enter Last Name with First letter as Capital");
    lname.focus();
    return false;
}

```

Figure 12: Name Validations

## Validating Email Field-

```

var mail_pattern = /^[A-Za-z]{1,1}+([A-Za-z0-9._])+@(([A-Za-z0-9]+\.)+([A-Za-z]{2,3})+)$/;

if (email.value == "") {
    alert("Please provide your Email");
    email.focus();
    return false;
}
if (!mail_pattern.test(email.value)) {
    alert("Please enter a Valid Email ID");
    email.focus();
    return false;
}

```

Figure 13: Email Validation

## Validating Password Fields-

In password validation-

- The **“password”** and **“confirm password”** should match to each other exactly, else, an alert message will be displayed.



- The “**password**” field must contain at least 5 characters, else, alert message will be displayed.

```
if (password.value != conpassword.value) {  
    alert("Password and Confirm Password doesn't match!");  
    return false;  
}  
if (password.value == "") {  
    alert("Please provide your Password!");  
    password.focus();  
    return false;  
}  
if (conpassword.value == "") {  
    alert("Please confirm your Password");  
    conpassword.focus();  
    return false;  
}  
if (password.value.length < 5) {  
    alert("Password must atleast 5 characters!");  
    return false;  
}
```

*Figure 14: Password Validations*

### Validating Address Field-

```
if (address.value == "") {  
    alert("Please provide your Address");  
    address.focus();  
    return false;  
}
```

*Figure 15: Address Validation*

### Validating Gender Field-

```
if (gender.value == "") {  
    alert("Enter your Gender");  
    return false;  
}
```

*Figure 16: Gender Validation*

### Validating Contact Field-

Contact Fields can be validated as the user must give only numbers in the field and must contain 10 digits, neither less than that nor more than that.

```
if (contact.value == "" || contact.value.length != 10) {  
    alert("Enter your Contact! Must Contain 10 digits!");  
    contact.focus();  
    return false;  
}
```

Figure 17: Contact Validation

### Validating the Date of Birth Fields-

In this Field, an attribute ***“selectedIndex”*** has been used to validate the three fields, be it the day, the month or the year.

```
if (date.selectedIndex == 0) {  
    alert("Date Field must not be Empty");  
    return false;  
}  
if (day.selectedIndex == 0) {  
    alert("Day Field must not be Empty");  
    return false;  
}  
if (month.selectedIndex == 0) {  
    alert("Month Field must not be Empty");  
    return false;  
}
```

Figure 18: Date of Birth Validation

### Validating the Qualification Field-

```
if (ten.checked == false && twelve.checked == false) {  
    alert("Please enter your Qualification!");  
    return false;  
}
```

Figure 19: Qualification Validation

## Validating the File Field-

It basically says that if the File has not been chosen, return an alert box to ***“Please Provide File”***.

```
if (!myfile.value) {  
    alert("Please provide File!");  
    return false;  
}
```

*Figure 20: File Validation*

## A GLIMPSE OUTPUTS WHEN FIELDS ARE NOT ATTEMPTED: -

127.0.0.1:5500 says

Please provide your First Name

OK

**First Name:**

**Last Name:**

**Email:**

**Password:**

**Confirm Password**

**Gender:** ☐ Male ☐ Female

**Qualification:** ☐ X ☐ XII

**Address:**

127.0.0.1:5500 says

Enter First Name with First letter as Capital

OK

**First Name:**

**Last Name:**

**Email:**

**Password:**

**Confirm Password**

**Gender:** ☐ Male ☐ Female

**Qualification:** ☐ X ☐ XII

**Address:**

127.0.0.1:5500 says

Password and Confirm Password doesn't match!

OK

**First Name:**

**Last Name:**

**Email:**

**Password:**

**Confirm Password**

**Gender:** ☐ Male ☐ Female

**Qualification:** ☐ X ☐ XII

**Address:**