

Code:

Index.html:

```
<!DOCTYPE html>

<html>

<head>

    <link rel = "stylesheet" href = "style.css" />

    <title> Form Validation </title>

</head>

<body style = "font-family: 'Courier New';" >

    <h1 style = "text-align : center;"> You have been invited to fill out the following form!
</h1>

    <p style = "text-align: center; font-weight: bold;"> Note : <span style="color:
#ff0000">*</span> indicates compulsory</p>

    <div class = "pad">

        <form name = "myForm" onsubmit = "return validateForm()"
action="http://localhost:8080/first/FormServlet" id = "regform">

            <div class = "grid-container">

                <div class = "hd">

                    <div id = "message">

                        <p id = "hint" class = "invalid"></p>

                    </div>

                </div>

                <div class = "sa" id = "SA">

                    <div class = "center">

                        <p> <label for = "sal"> <span style="color: #ff0000">*</span>Salutation:
</label> </p>

                        </div>

                    </div>

                    <div class = "b1">

                        <div class = "center">

                            <p> <input type = "radio" id = "Mr." name = "sal" value = "Mr.">
```

```
        <label for = "Mr."> Mr. </label> </p>
    </div>
</div>
<div class = "b2">
    <div class = "center">
        <p> <input type = "radio" id = "Miss." name = "sal" value = "Miss.">
            <label for = "Miss."> Miss. </label> </p>
    </div>
</div>
<div class = "b3">
    <div class = "center">
        <p> <input type = "radio" id = "Mrs." name = "sal" value = "Mrs.">
            <label for = "Mrs."> Mrs. </label> </p>
    </div>
</div>
<div class = "b4">
    <div class = "center">
        <p> <input type = "radio" id = "Dr." name = "sal" value = "Dr.">
            <label for = "Dr."> Dr. </label> </p>
    </div>
</div>

<div class = "fn" id = "FN">
    <label for = "fname"> <span style="color: #ff0000">*</span>Name: </label>
</div>
<div class = "n1">
    <input type = "text" id = "fname" name = "fname">
</div>
```

```
<div class = "un" id = "UN">
    <label for = "uname"> <span style="color: #ff0000">*</span>Username: </label>
</div>
```

```
<div class = "n2">
    <input list = "unames" id = "uname" name = "uname">
    <datalist id = "unames">
        <option value = "armaan">
        <option value = "armaan1">
        <option value = "armaan2">
        <option value = "armaan3">
    </datalist>
</div>
```

```
<div class = "pw" id = "PW">
    <label for = "pwd"> <span style="color: #ff0000">*</span>Password: </label>
</div>
```

```
<div class = "n3">
    <input type = "password" id = "pwd" name = "pwd" minlength = "8">
</div>
```

```
<div class = "em" id = "EM">
    <label for = "email"> <span style="color: #ff0000">*</span>Email: </label>
</div>
```

```
<div class = "n4">
    <input type = "email" id = "email" name = "email"> <br>
</div>
```

```
<div class = "db" id = "DB">
    <label for = "dob"> <span style="color: #ff0000">*</span>Date of Birth: </label>
```

</div>

<div class = "n5">

<input type = "date" id = "dob" name = "dob">

</div>

<div class = "ph" id = PH>

<label for = "pic"> Photo: </label>

</div>

<div class = "n6">

<input type = "file" id = "pic" name = "pic" accept="image/*">

</div>

<div class = "fs" id = "FS">

<div class = "center">

<p> <label for = "lang"> *Fieldset:
</label> </p>

</div>

</div>

<div class = "b5">

<div class = "center">

<p> <input type = "checkbox" id = "lang1" name = "lang" value = "English">

<label for = "lang1"> English </label> </p>

</div>

</div>

<div class = "b6">

<div class = "center">

<p> <input type = "checkbox" id = "lang2" name = "lang" value = "Tamil">

<label for = "lang2"> Tamil </label> </p>

</div>

</div>

```
<div class = "b7">
  <div class = "center">
    <p> <input type = "checkbox" id = "lang3" name = "lang" value = "French">
      <label for = "lang3"> French </label> </p>
  </div>
```

```
</div>
```

```
<div class = "b8">
```

```
  <div class = "center">
    <p> <input type = "checkbox" id = "lang4" name = "lang" value = "Others">
      <label for = "lang4"> Others </label> </p>
  </div>
```

```
</div>
```

```
<div class = "ae" id = "AE">
```

```
  <div class = "center">
    <p> <label for = "addexp"> Additional Expertise: </label> </p>
  </div>
```

```
</div>
```

```
<div class = "n7">
```

```
  <textarea id = "addexp" name = "addexp" rows = "4" cols = "50"> </textarea>
```

```
</div>
```

```
<div class = "b9" style = "background-color: rgb(255, 255, 255, 0.0)">
```

```
  <input type = "reset" value = "Reset">
```

```
</div>
```

```
<div class = "b0" style = "background-color: rgb(255, 255, 255, 0.0)">
```

```
  <input type = "submit" value = "Submit">
```

```
</div>
```

```
</div>
```

```
        </form>
    </div>
    <br><br>
    <script src = "./script.js"> </script>

</body>
</html>
```

Style.css:

```
html {
    background: url(img.jpg) no-repeat center center fixed;
    -webkit-background-size: cover;
    -moz-background-size: cover;
    -o-background-size: cover;
    background-size: cover;
}

table {
    font-family: 'Courier New';
    border-collapse: collapse;
    width: 100%;
}

td, th {
    border: 1px solid #ffffff;
    text-align : center;
    padding: 8px;
}
```

```
tr:nth-child(even) {  
    background-color: #ffffff;  
}
```

```
input {  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    box-sizing: border-box;  
}
```

```
input[type=submit] {  
    background-color: #4CAF50;  
    width:75%;  
    color: white;  
    padding: 10px;  
}
```

```
input[type=reset] {  
    background-color: red;  
    width:75%;  
    color: white;  
    padding: 10px;  
}
```

```
#message {  
    display: none;  
    color: #000;  
    position: relative;  
    font-size: small;
```

```
}
```

```
.must:before {  
  position: relative;  
  content: "*";  
  color: red;  
}
```

```
.center {  
  height: 100%;  
  position: relative;  
}
```

```
.center p {  
  margin: 0;  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  -ms-transform: translate(-50%, -50%);  
  transform: translate(-50%, -50%);  
}
```

```
.sa { grid-area: sa; }  
.b1 { grid-area: b1; }  
.b2 { grid-area: b2; }  
.b3 { grid-area: b3; }  
.b4 { grid-area: b4; }  
.fn { grid-area: fn; }  
.n1 { grid-area: n1; }
```



```
.un { grid-area: un; }  
.n2 { grid-area: n2; }  
.pw { grid-area: pw; }  
.n3 { grid-area: n3; }  
.em { grid-area: em; }  
.n4 { grid-area: n4; }  
.db { grid-area: db; }  
.n5 { grid-area: n5; }  
.ph { grid-area: ph; }  
.n6 { grid-area: n6; }  
.fs { grid-area: fs; }  
.b5 { grid-area: b5; }  
.b6 { grid-area: b6; }  
.b7 { grid-area: b7; }  
.b8 { grid-area: b8; }  
.ae { grid-area: ae; }  
.n7 { grid-area: n7; }  
.b9 { grid-area: b9; }  
.b0 { grid-area: b0; }  
.hd { grid-area: hd; }
```

```
.grid-container {  
  display: grid;  
  grid-template-areas:  
    'hd hd hd'  
    'sa b1 b2'  
    'sa b3 b4'  
    'fn n1 n1'  
    'un n2 n2'
```

```
'pw n3 n3'  
'em n4 n4'  
'db n5 n5'  
'ph n6 n6'  
'fs b5 b6'  
'fs b7 b8'  
'ae n7 n7'  
' . b9 b0';  
grid-gap: 5px;  
}
```

```
.grid-container > div {  
  background-color: rgb(255, 255, 255, 0.8);  
  text-align: center;  
  padding: 20px 0;  
}
```

```
.pad {  
  display: block;  
  margin-left: auto;  
  margin-right: auto;  
  width: 52%;  
  color: black;  
  background-color : rgba(255, 255, 255, 0.5);  
  text-align: center;  
  font-family: 'Courier New';  
  font-weight: bold;  
  border: 1px solid;  
  padding: 10px;
```

```
}
```

```
.valid {  
    color: green;  
}
```

```
.invalid {  
    color: red;  
}
```

FormServlet.java:

```
import java.util.*;  
import javax.servlet.http.*;  
import javax.servlet.*;  
import java.io.*;  
  
public class FormServlet extends HttpServlet{  
    public void doGet(HttpServletRequest request,HttpServletResponse response)  
        throws ServletException,IOException  
    {  
        response.setContentType("text/html");  
        PrintWriter pw = response.getWriter();  
        String sal = request.getParameter("sal");  
        String name = request.getParameter("fname");  
        String username = request.getParameter("uname");  
        String pwd = request.getParameter("pwd");  
        String email = request.getParameter("email");  
        String dob = request.getParameter("dob");  
        String[] L = request.getParameterValues("lang");  
        List lang = Arrays.asList(L);
```

```
String AE = request.getParameter("addexp");

pw.println("<html><body>");

pw.println("<head><title>Entered Details</title><link rel='stylesheet'
href='style.css'></head>");

pw.println("<h1>Details</h1><table class='center'><tr><th>Salutation:
</th><td>" + sal + "</td></tr><tr><th>Name:
</th><td>" + name + "</td></tr><tr><th>Username: </th><td>" + username +
"</td></tr><tr><th>Password: </th><td>" + pwd + "</td></tr><tr><th>E - mail: </th><td>"
+ email + "</td></tr><tr><th>DOB: </th><td>" + dob + "</td></tr><tr><th>Languages:
</th><td>" + lang + "</td></tr><tr><th>Additional Expertise: </th><td>" + AE +
"</td></tr></table>");

pw.println("</body></html>");

pw.close();
}}
```

Script.js:

```
function validateForm() {

    var v = document.forms["myForm"]["sal"].value;

    if (v == "") {

        alert("Salutation must be filled.");

        return false;

    }

    var v = document.forms["myForm"]["fname"].value;

    var x = /^[a-zA-Z]+\s?[a-zA-Z]*\s?$/;

    var result = x.test(v);

    if(result == false){

        alert("Name must be 1 or 2 words of only alphabets.");

        return false;

    }

}
```

```
var v = document.forms["myForm"]["uname"].value;

if (v == "") {

    alert("Username must be filled.");

    return false;

}
```

```
var v = document.forms["myForm"]["pwd"].value;

if(!v.match(/[a-z]/) || !v.match(/[A-Z]/) || !v.match(/[0-9]/) || !v.match(/\W|_/)){

    alert("Password must be atleast 1 lowercase, uppercase, special charecter, number.");

    return false;

}
```

```
v = document.forms["myForm"]["email"].value;

var x = /^[a-zA-Z0-9]+([a-zA-Z0-9]+)*@[a-zA-Z]+([a-zA-Z]+)+$/;

var result = x.test(v);

if(result == false){

    alert("Enter a proper email.");

    return false;

}
```

```
var v = document.forms["myForm"]["dob"].value;

var dob = new Date(v);

var month_diff = Date.now() - dob.getTime();

var age_dt = new Date(month_diff);

var year = age_dt.getUTCFullYear();

var age = Math.abs(year - 1970);

if(v == null || v == ""){

    alert("Date of Birth must be filled.");

    return false;

}
```

```
} else if(age > 35 || age < 18){  
    alert("Age should be between 18 and 35.");  
    return false;  
}
```

```
var v = document.querySelectorAll('input[name="lang"]:checked').length;  
if(v < 2){  
    alert("Atleast 2 languages must be selected.");  
    return false;  
}  
}
```

```
var n = document.getElementById("fname");  
var h = document.getElementById("hint");
```

```
n.onfocus = function() {  
    document.getElementById("hint").innerHTML = "Hint : Name must be 1 or 2 words of only  
alphabets";  
    document.getElementById("message").style.display = "block";  
    document.getElementById("FN").style.backgroundColor = "yellow";  
}
```

```
n.onblur = function() {  
    document.getElementById("message").style.display = "none";  
    h.classList.remove("valid");  
    h.classList.add("invalid");  
    document.getElementById("FN").style.backgroundColor = "rgb(255, 255, 255, 0.8)";  
}
```

```
n.onkeyup = function() {
```

```

var x = /^[a-zA-Z]+\s?[a-zA-Z]*\s?$;/

if(n.value.match(x)) {
    h.classList.remove("invalid");
    h.classList.add("valid");
} else {
    h.classList.remove("valid");
    h.classList.add("invalid");
}
}

var n1 = document.getElementById("pwd");

n1.onfocus = function() {
    document.getElementById("hint").innerHTML = "Hint : Password must be atleast 1
lowercase, uppercace, special charecter, number.";
    document.getElementById("message").style.display = "block";
    document.getElementById("PW").style.backgroundColor = "yellow";
}

n1.onblur = function() {
    document.getElementById("message").style.display = "none";
    h.classList.remove("valid");
    h.classList.add("invalid");
    document.getElementById("PW").style.backgroundColor = "rgb(255, 255, 255, 0.8)";
}

n1.onkeyup = function() {
    if(!n1.value.match(/[a-z]/) || !n1.value.match(/[A-Z]/) || !n1.value.match(/[0-9]/) ||
!n1.value.match(/\W|_/)){
        h.classList.remove("valid");
    }
}

```

```
        h.classList.add("invalid");
    } else {
        h.classList.remove("invalid");
        h.classList.add("valid");
    }
}
```

```
var n2 = document.getElementById("dob");
```

```
n2.onfocus = function() {
    document.getElementById("hint").innerHTML = "Hint : Age should be between 18 and 35.";
    document.getElementById("message").style.display = "block";
}
```

```
n2.onblur = function() {
    document.getElementById("message").style.display = "none";
    h.classList.remove("valid");
    h.classList.add("invalid");
}
```

```
n2.oninput = function() {
    var v = document.forms["myForm"]["dob"].value;
    var dob = new Date(v);
    var month_diff = Date.now() - dob.getTime();
    var age_dt = new Date(month_diff);
    var year = age_dt.getUTCFullYear();
    var age = Math.abs(year - 1970);
    if(v == null || v == "" || age > 35 || age < 18){
        h.classList.remove("valid");
    }
}
```



```
        h.classList.add("invalid");
    } else {
        h.classList.remove("invalid");
        h.classList.add("valid");
    }
}
```

Output Screen Shots:

The screenshot shows a web browser window with the title 'Form Validation' and the URL 'http://localhost:8080/first/'. The browser's address bar and tabs are visible. The page content includes a heading 'You have been invited to fill out the following form!' and a note: 'Note : * indicates compulsory'. Below this is a form with the following fields:

- *Salutation:** Radio buttons for Mr. (selected), Miss., Mrs., and Dr.
- *Name:** Text input field containing 'Armaan Rao'.
- *Username:** Text input field containing 'Armaan Rao'.
- *Password:** Password input field with masked characters '*****'.
- *Email:** Text input field containing 'armaancrao01@gmail.com'.
- *Date of Birth:** Date input field showing '09-12-2000' with a calendar icon.
- Photo:** File upload field with a 'Choose File' button and 'No file chosen' text.
- *Fieldset:** Checkboxes for English (checked), Tamil (checked), and Others (unchecked).

The Windows taskbar is visible at the bottom of the screen, showing the search bar and various application icons.

Form Validation

http://localhost:3080/first/

*Name: Armaan Rao

*Username: Armaan Rao

*Password: P@ssw0rd

*Email: armaancrao01@gmail.com

*Date of Birth: 09-12-2000

Photo: Choose File No file chosen

*Fieldset: ☒ English ☒ Tamil ☐ French ☒ Others

Additional Expertise: js,python,html

Reset Submit

Type here to search

2012 05-05-2021

Entered Details

http://localhost:3080/first/FormServlet?sal=Mr.&fname=Armaan+Rao&uname=Armaan+Rao&pwd=P%40ssw0rd&email=armaancrao01%40gmail.com&dob=2000-12-09&pic=&lang=Englis...

Details

| | |
|-------------|--------------------------|
| Salutation: | Mr. |
| Name: | Armaan Rao |
| Username: | Armaan Rao |
| Password: | P@ssw0rd |
| E - mail: | armaancrao01@gmail.com |
| DOB: | 2000-12-09 |
| Languages: | [English, Tamil, Others] |

Type here to search

2012 05-05-2021

Entered Details

← → ↻ <http://localhost:3080/first/FormServlet?sal=Mr.&fname=Armaan+Rao&surname=Armaan+Rao&pwd=P%40ssw0rd&email=armaancrao01%40gmail.com&dob=2000-12-09&pic=&lang=Englis...> ☆

Apps YACC program to L... Binomial Probabil... Fake News Classific... Watch All Dragon B... Object oriented me... node.js - npm instal... Great Looking Skyri... How to Completely... Reading list

| | |
|-----------------------|--------------------------|
| Salutation: | Mr. |
| Name: | Armaan Rao |
| Username: | Armaan Rao |
| Password: | P@ssw0rd |
| E - mail: | armaancrao01@gmail.com |
| DOB: | 2000-12-09 |
| Languages: | [English, Tamil, Others] |
| Additional Expertise: | js,python,html |

Type here to search

2012 05-05-2021