



FORM VALIDATION

MAD LAB NUMBER 2



MARCH 12, 2021

SUBMITTED BY : AASHAR MEHMOOD
ROLL NUMBER : 18-CP-33

Form Validation and Responsive Web Design

Your Name Aashar Mehmood	Contact
Father Name Asghar Mehmood	CNIC
Date of Birth mm/dd/yyyy <input type="checkbox"/>	Education Select Education ▼
Address Village Malla Mirzian, Post Office Nara, Tehsil Kahuta, District Rawalpindi	Bio Tell us about your self
Email Address example@gmail.com	Submit Reset

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Form Validation and Responsive Web Design

Your Name can not contain Numbers 3345	Contact field can not be empty
Father Name Asghar Mehmood	CNIC length should be 13 656575676
Date of Birth field can not be empty mm/dd/yyyy <input type="checkbox"/>	Education Select Your Education Select Education ▼
Address field can not be empty Village Malla Mirzian, Post Office Nara, Tehsil Kahuta, District Rawalpindi	Bio field can not be empty Tell us about your self
Email Address ADFASD	Submit Reset

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Form Validation and Responsive Web Design

Your Name	Contact
<input type="text" value="Aashar Mehmood"/>	<input type="text" value="956456665464"/>
Father Name	CNIC
<input type="text" value="Asghar Mehmood"/>	length should be 13
Date of Birth	<input type="text" value="656575676998"/>
<input type="text" value="03/09/2021"/>	Education
<input type="text" value="03/09/2021"/>	<input type="text" value="BS"/>
Address	Bio
field can not be empty	Bio Should be not too short
<input type="text" value="Village Walla Mirzian, Post Office Wana, Tehsil Kahuta, District Rawalpindi"/>	<input type="text" value="short bio"/>
Email Address	
<input type="text" value="aashar@gmail.com"/>	
	<input type="button" value="Submit"/> <input type="button" value="Reset"/>

Form Validation and Responsive Web Design

Your Name	<input type="text" value="Aashar Mehmood"/>
Father Name	<input type="text" value="Asghar Mehmood"/>
Date of Birth	<input type="text" value="mm/dd/yyyy"/>
Address	<input type="text" value="Village Nalla Mirzian, Post Office Nara, Tehsil Kahuta, District Rawalpindi"/>
Email Address	<input type="text" value="example@gmail.com"/>
Contact	<input type="text"/>
CNIC	<input type="text"/>
Education	<input type="text" value="Select Education"/>
Bio	<input type="text" value="Tell us about your selft"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

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Form Validation and Responsive Web Design

Your Name	<input type="text" value="Aashar Mehmood"/>
Father Name	<input type="text" value="Asghar Mehmood"/>
Date of Birth	<input type="text" value="mm/dd/yyyy"/>
Address	<input type="text" value="Village Nalla Mirzian, Post Office Nara, Tehsil Kahuta, District Rawalpindi"/>
Email Address	<input type="text" value="example@gmail.com"/>
Contact	<input type="text"/>
CNIC	<input type="text"/>
Education	<input type="text" value="Select Education"/>
Bio	<input type="text" value="Tell us about your selft"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

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Javascript Code:-

```
const emailExpression = /[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$/;
```

```
//select buttons for actions
```

```
const SUBMIT_BTN = document.getElementById('submit');
```

```
const RESET_BTN = document.getElementById('reset');
```

```
//select all Inputs and Text Areas and select
```

```
const allInputs = document.querySelectorAll('form section input');
```

```
const allTextAreas = document.querySelectorAll('form section textarea');
```

```
const select = document.querySelector('select#edu');
```

```
//event listener for submit button
```

```
SUBMIT_BTN.addEventListener('click', (e) => {
```

```
//iterate over each input to check if it is empty
```

```
allInputs.forEach((input) => {
```

```
  if (input.value == "" || input.value == null) {
```

```
    input.previousElementSibling.textContent = " field can not be empty";
```

```
    redColor(input);
```

```
    e.preventDefault();
```

```
  }
```

```
//check if it is not empty then is its pattern correct
```

```
else if (input.value !== "" || input.value !== null) {
```

```
  if ((input.getAttribute("type") == "text") && (/[0-9]+/.test(input.value))) {
```

```
    input.previousElementSibling.textContent = " can not contain Numbers";
```

```
    redColor(input);
```

```
    e.preventDefault();
```

```
  }
```

```
else if ((input.getAttribute("type") == "number") && (/[a-zA-Z]+/.test(input.value))) {
```

```
  input.previousElementSibling.textContent = " can not contain characters or space";
```

```
  redColor(input);
```

```
  e.preventDefault();
```

```
}
```

```
else if (input.getAttribute("type") == "number" && input.id == "cnic" &&  
input.value.length !== 13) {
```

```
  input.previousElementSibling.textContent = 'length should be 13';
```

```
  redColor(input);
```

```
  e.preventDefault();
```

```
}
```

```
else if ((input.getAttribute("type") == "email") && !(emailExpression.test(input.value))) {
```

```
  input.previousElementSibling.textContent = "Enter a valid Email Address";
```

```

        redColor(input);
        e.preventDefault();
    }
    else {
        input.previousElementSibling.textContent = " ";
        blackColor(input);
    }
}
});

```

//chceck each text Area if it is empty or not

```

allTextAreas.forEach((textArea) => {
    if (textArea.value == "" || textArea.value == null) {
        textArea.previousElementSibling.textContent = " field can not be empty";
        redColor(textArea);
        e.preventDefault();
    }
    else if (textArea.value !== "" || textArea.value !== null){
        if(textArea.id=="bio" && textArea.value.length<100){
            textArea.previousElementSibling.textContent = "Bio Should be not too short";
            redColor(textArea);
        }
    }
    else {
        textArea.previousElementSibling.textContent = " ";
        blackColor(textArea);
    }
});

```

```

if(select.selectedIndex== 0){
    select.previousElementSibling.textContent = 'Select Your Education';
    redColor(select);
    e.preventDefault();
}
else {
    select.previousElementSibling.textContent = " ";
    blackColor(select);
}

});

```

//functions to change the color of span element and label element

```

function redColor(ele){
    ele.previousElementSibling.style.color = "red";
    ele.previousElementSibling.previousElementSibling.style.color = "red";
}

```

```
function blackColor(element){
  element.previousElementSibling.style.color = 'black';
  element.previousElementSibling.previousElementSibling.style.color = 'black';
}
```

//event listener for reset button

```
RESET_BTN.addEventListener('click', ()=>{
  allInputs.forEach((inp)=>{
    inp.value = '';
  });
  textAreas.forEach((textarea)=>{
    textarea.value = '';
  })
});
```

CSS CODE:-

```
*{
  box-sizing: border-box;
}

html, body{
  width: 100%;
  overflow-x: hidden;
  margin: 0;
  padding: 0;
  font-family: 'Times New Roman', Arial, Helvetica, sans-serif;
}

header{
  width: 100%;
  padding: 20px 0;
  background-color: rgb(75, 250, 168);
  text-align: center;
}

form{
  width: 100%;
  min-height: 500px;
  padding: 30px 0;
  justify-content: center;
  align-items: center;
  background: linear-gradient(to left, rgb(100, 230, 100), skyblue );
}

form section{
  width: 60%;
```

```
margin:0 auto;
padding: 20px;
display: grid;
grid-template-columns: 1fr 1fr;
grid-column-gap: 2em;
grid-template-rows: auto;
border: 2px solid black;
}
div#second, div#third{
display: flex;
flex-flow: column;
}

div#second input, div#third input, div#third select{
margin:4px 0;
}
div#second label, div#third label{
margin-top: 20px;
display: inline;
}
div#second textarea, div#third textarea{
min-height: 100px;
}

footer{
width: 100%;
padding: 45px 0;
background-color: rgb(235, 208, 136);
text-align: center;
}

div#third select{
height: 32px;
}
div#third div {
max-width: 80%;
margin: 0 auto;
display: flex;
margin-top: 20px;
}
div#third div button{
padding: 9px 30px;
font-size: 17px;
font-weight: bold;
```



```

    margin-right: 10px;
    margin-left: 10px;
    transition: all 0.7 ease;
}
div#third div button:hover{
    background-color:green;
    color: white;
}
body input{
    height: 32px;
}

/* for mobile devices */
@media screen and (max-width:480px) {
    form section{
        width: 90%;
        grid-template-columns: 1fr;
        grid-template-rows: auto;
    }

    div#second label, div#third label{
        margin-top: 18px;
    }
}

```

HTML CODE:-

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Aashar Mehmood 18-cp-33</title>
    <link rel="stylesheet" href="./Validation.css">
</head>
<body>
    <header>
        <h2>Form Validation and Responsive Web Design</h2>
    </header>
    <main>
        <form action="submit">
            <section>
                <div class="col" id="second">
                    <label>Your Name</label> <span id="nameError"></span>

```

```

<input type="text" placeholder="Aashar Mehmood" autocomplete>
<label>Father Name</label> <span id="fatherNameError"></span>
<input type="text" placeholder="Asghar Mehmood">
<label>Date of Birth</label> <span id="dateError"></span>
<input type="date" placeholder="12-Oct-1998">
<label>Address</label><span id="addressError"></span>
<textarea placeholder="Village Nalla Mirzian, Post Office Nara, Tehsil
Kahuta, District Rawalpindi"></textarea>
<label >Email Address</label><span id="emailError"></span>
<input type="text" placeholder="example@gmail.com">

</div>
<div class="col" id="third">
  <label>Contact</label><span id="contactError"></span>
  <input type="number">
  <label>CNIC</label><span id="cnicError"></span>
  <input type="number" id="cnic">
  <label>Education</label><span id="educationError"></span>
  <select name="education" id="edu">
    <option value="none">Select Education</option>
    <option value="matric">Matric</option>
    <option value="pre-eng">Pre-Engineering</option>
    <option value="pre-med">Pre-Medical</option>
    <option value="ics">ICS</option>
    <option value="BS">BS</option>
    <option value="MS">MS</option>
    <option value="PHD">PHD</option>
  </select>
  <label>Bio</label><span id="bioError"></span>
  <textarea id="bio" placeholder="Tell us about your selft"></textarea>
  <div class="btns">
    <button id="submit" type="submit">Submit</button>
    <button id="reset" type="reset">Reset</button>
  </div>
</div>
</section>
</form>
<footer>
  <div class="copy">
    <h2>Copy Right &copy;aasharmehmood3@gmail.com</h2>
  </div>
</footer>
<script src="./app.js"></script>
</body>
</html>

```