

FORM VALIDATION

MAD LAB NUMBER 2

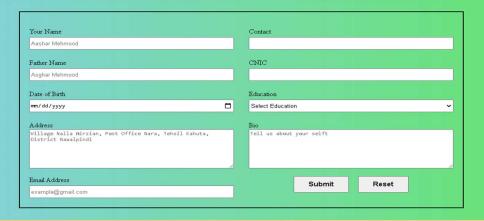


MARCH 12, 2021

SUBMITTED BY: AASHAR MEHMOOD

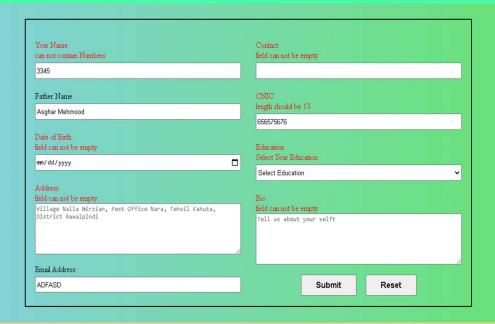
ROLL NUMBER: 18-CP-33

Form Validation and Responsive Web Design



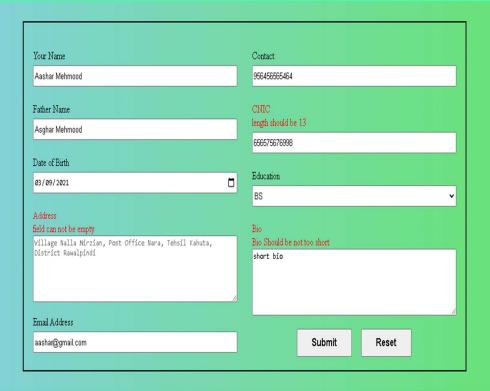
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Form Validation and Responsive Web Design



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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.guerySelectorAll('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>
    <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>
      <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</putton>
      </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>
```