Forms And Forms Validations

Forms ki validations mein hm ye sari cheezain check kr sktay hain k for eg ye text area hai ye empty hai ya nai ye koi email put ki hai k nai matlab jo b or kuch orr conditions hm chahein tu put kr sktay hain

    <form>

      <input id="name" type="text" placeholder="Name" /> <br />

      <div id="hide">

        <small>name should be greater than 2 characters</small><br />

      </div>

      <br />

      <input id="email" type="email" placeholder="Email" /><br /><br />

      <input id="password" type="password" placeholder="Password" /><br /><br />

      <select>

        <option value="male">Male</option>

        <option value="male">Female</option>

        <option value="male">Others</option>

      </select>

      <br /><br />

      <textarea placeholder="say something"> </textarea>

      <br /><br />

      <input type="submit" />

    </form>

mform.addEventListener("submit", function (dets) {

    dets.preventDefault();

    if(nm.value.length > 2){

  document.querySelector("#hide").style.display = "initial";

    document.querySelector("#hide").style.color = "red";

    }else{

document.querySelector("#hide").style.display = "none";

}

});

Ham nay ye likhaa hai magar jab hm submit prr click krtay hain tu ye jo textfields hain ye check honay say pahlay hii ye form submit ho jaye ga matlab k form submit pahlay ho jaye ga orr check baad mein hoga jo k khud aik problem hai tu ham nay ye jo preventDefault() likhaa hai ye ye kaam karta hai k ye form ko submit honay say rock leta hai tu iss liye hm nay ye likhaa hai k form ko abi submit mat karo jab ye form ki validation ho jaye tu phirr submit krna

Tu ham nay iss mein ye kiyaa hai k ham nay name k textfield mein dhaiknaa hai k agar name ki length jo hai wo 2 k equal ho ya 2 say less ho tu phirr hm nay ye ho div ham nay banaya hai jiss ko id dii hai hide ki wo show ho jaye gaa or uss ka color b red show ho jaye ga. Magar agar uss ki length 2 say zyada hai tu phirr ye jo hide ki id wala div jo hai wo phir show naii hoga wo hide hii rahay ga ye ham nay else mein likhaa hai.

Regex:

ye jo hai ye hm zyada tar javascript mein validation k liyee use krtay hain. Ye aik alag poori language haii orr zyada tar log issay chat gpt say likhwatay hain.

Ye regex jo hai ye pattern ka code hai ye hm likhtay hain jiss say hm maloom kr sktay hain k ye jo email etc hai ye sahi hai ya nai. Jaisay k for eg

mform.addEventListener("submit", function (dets) {

  dets.preventDefault();

  const regex = /^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

  let ans = regex.test("alikhan@gmail.com");

  //   let ans = regex.test("a@a.a");

  console.log(ans);

});

Ye jo code hai iss mein ham nay console mein print kiyaaa hai and ko tu ye ab humein print krwaye ga true ya false. Matlab k agar email ka format sai hai tu true aye ga orr agar nai tu false.

Ye regex hum apnii marzi ka koi b bana sktay hain. Tu jaisay k agar hm chahtay hain hm ye regex create karein k jiss mein siraf characters, numbers, \_ tu ye hm chat gpt say create krwa sktay hain.

Practice :

Html for email and password validator

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Email Pass Validator</title>

    <link rel="stylesheet" href="email\_pass\_validator\_css.css" />

  </head>

  <body>

    <div class="container">

      <h2>Email and Password Validator</h2>

      <form autocapitalize="off" id="loginform">

        <div class="form-group">

          <label for="email">Email:</label>

          <input type="text" id="email" placeholder="enter your email" />

          <small class="error" id="email-error"></small>

        </div>

        <div class="form-group">

          <label for="password">Password:</label>

          <input

            type="password"

            id="password"

            placeholder="enter your password"

          />

          <small class="error" id="password-error"></small>

        </div>

        <button type="submit">Validate</button>

      </form>

      <div id="resultMessage">There are some errors</div>

    </div>

    <script src="email\_pass\_validator.js"></script>

  </body>

</html>

Css for html and password validator

body {

  font-family: "Segoe UI", sans-serif;

  background: #f2f2f2;

  display: flex;

  align-items: center;

  justify-content: center;

  height: 100vh;

  margin: 0;

}

.container {

  background: white;

  padding: 30px 40px;

  border-radius: 8px;

  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);

  width: 350px;

}

h2 {

  text-align: center;

  margin-bottom: 25px;

  color: #333;

}

label {

  display: block;

  margin-bottom: 6px;

  color: #444;

  font-weight: bold;

}

.form-group {

  margin-bottom: 20px;

}

input {

  width: 100%;

  padding: 10px;

  border: 1px solid #ccc;

  border-radius: 6px;

  font-size: 14px;

}

input:focus {

  border-color: #007bff;

  outline: none;

}

button {

  width: 100%;

  padding: 12px;

  background: #007bff;

  color: white;

  border: none;

  border-radius: 6px;

  font-size: 16px;

}

button:hover {

  background: #0056b3;

}

.error {

  color: red;

  font-size: 12px;

  margin-top: 4px;

  display: none;

}

#resultMessage {

  color: red;

  margin-top: 20px;

  text-align: center;

  font-weight: bold;

  font-size: 14px;

}

Java script code :

let email = document.querySelector("#email");

let password = document.querySelector("#password");

let form = document.querySelector("form");

form.addEventListener("submit", function (dets) {

  dets.preventDefault();

  document.querySelector("#email-error").textContent = "";

  document.querySelector("#password-error").textContent = "";

  const emailRegex = /^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

  const passwordRegex =

    /^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$/;

  let emailAns = emailRegex.test(email.value);

  let passwordAns = passwordRegex.test(password.value);

  let isValid = true;

  if (!emailAns) {

    document.querySelector("#email-error").textContent = "Email is incorrect";

    document.querySelector("#email-error").style.display = "initial";

    isValid = false;

  } else {

    document.querySelector("#email-error").textContent = "";

    document.querySelector("#email-error").style.display = "none";

  }

  if (!passwordAns) {

    document.querySelector("#password-error").textContent =

      "Password is incorrect";

    document.querySelector("#password-error").style.display = "initial";

    isValid = false;

  } else {

    document.querySelector("#password-error").textContent = "";

    document.querySelector("#password-error").style.display = "none";

  }

  if (isValid) {

    document.querySelector("#resultMessage").textContent =

      "Everything is alright";

  }

});

Code Explanation:

Tu iss mein ham nay ye kiyaa hai k pahlay tu email, password, and form ko select kiyaa hai. Uss k baad form pr ham nay event listener lagaya hai submit wala. Event k andar hm nay preventDefault() ka use kiyaa hai jiss ki wajah say automatically jo form submit ya reload hota hai wo nai hoga.

Uss k baad ham nay email error and password error ko select kiyaa hai or uss mein jo textcontent hota hai uss ko empty kr diya hai.

Uss k baad ham nay email and password regex ko banaya hai

Phirr ham nay if condition use kii hai k jiss mein agar jo emailAns ham nay variable banaya tha agar wo wrong hogi tu ye condition chalay gii orr jo email-error ka text content hoga wo show hoga jo k “wrong email” and else mein ham nay dobara textcontent ko empty kr diya hai or display ko b initial kr diya hai orr isse tarah password k liye b use kiyaa hai

Orr last mein mein ham nay if condition use ki hai k agar abi b isValid ki value true ho tu phir “everything is alright” show karo otherwise phir ye show nai hogi.

Common Confusions:

.value vs .textContent:

Ye jo .value hai ye ham jab koi b input ki field use krtay hain jaisy k for eg hm nay email k liye aik textfield koi banaii hai uss say hm nay value ko get krna hai k jo b koi user koi cheez put karay tu wo agar hm nay get krna hai tu phirr ham use krtay hain (.value). while jo b koi doosra koi text walay tags hon jaisay koi heading, text, anything jo b ho jiss mein koi text likhaa huaa ho orr wo hm nay get krna ho tu phirr ham use krtay hain (.textContent). So this is major difference between .value and .textContent