

Subject Code : AI23431

WEB TECHNOLOGY AND MOBILE APPLICATION

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Artificial Intelligence ;Data Science and Artificial Intelligence ;Machine Learning

LIST OF EXPERIMENT : 02

2 Write JavaScript to validate the following fields of the Registration page.

- a) First Name (Name should contains alphabets and the length Should not be less than 6 characters).
- b) Password (Password should not be less than 6 characters length).
- c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)

- d) Mobile Number (Phone number should contain 10 digits only).
- e) Last Name and Address (should not be Empty)

AIM : To create a JavaScript to validate the following fields of the Registration page

SOURCE CODE :

HTML Form for Registration:

First Name ,Password , E-Mail Id , Mobile Number , Last Name and Address

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <style>
    .error {
      color: red;
    }
  </style>
</head>
<body>
```

```
<h2>Registration Form</h2>
```

```
<form id="registrationForm" onsubmit="return validateForm()">
  <label for="firstName">First Name: </label>
  <input type="text" id="firstName" name="firstName">
  <span id="firstNameError" class="error"></span><br><br>
```

```
  <label for="lastName">Last Name: </label>
  <input type="text" id="lastName" name="lastName">
  <span id="lastNameError" class="error"></span><br><br>
```

```
  <label for="address">Address: </label>
```

```
<textarea id="address" name="address"></textarea>
<span id="addressError" class="error"></span><br><br>
```

```
<label for="email">E-mail: </label>
<input type="text" id="email" name="email">
<span id="emailError" class="error"></span><br><br>
```

```
<label for="password">Password: </label>
<input type="password" id="password" name="password">
<span id="passwordError" class="error"></span><br><br>
```

```
<label for="mobile">Mobile Number: </label>
<input type="text" id="mobile" name="mobile">
<span id="mobileError" class="error"></span><br><br>
```

```
<button type="submit">Submit</button>
</form>
```

```
<script>
// Function to validate the form
function validateForm() {
    let valid = true;

    // Resetting error messages
    document.getElementById("firstNameError").innerText = "";
    document.getElementById("lastNameError").innerText = "";
    document.getElementById("addressError").innerText = "";
```

```
document.getElementById("emailError").innerText = "";
document.getElementById("passwordError").innerText = "";
document.getElementById("mobileError").innerText = "";
```

```
// First Name Validation (Alphabets and length > 6)
let firstName = document.getElementById("firstName").value;
if (!/^[A-Za-z]+$/.test(firstName) || firstName.length < 6) {
    document.getElementById("firstNameError").innerText = "First Name should contain only alphabets and must be at least 6 characters
long.";
    valid = false;
}
```

```
// Last Name Validation (Non-empty)
let lastName = document.getElementById("lastName").value;
if (lastName.trim() === "") {
    document.getElementById("lastNameError").innerText = "Last Name cannot be empty.";
    valid = false;
}
```

```
// Address Validation (Non-empty)
let address = document.getElementById("address").value;
if (address.trim() === "") {
    document.getElementById("addressError").innerText = "Address cannot be empty.";
    valid = false;
}
```

```
// E-mail Validation (Standard pattern)
let email = document.getElementById("email").value;
let emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
```

```
if (!emailPattern.test(email)) {  
    document.getElementById("emailError").innerText = "Please enter a valid email address (name@domain.com).";  
    valid = false;  
}  
  
// Password Validation (At least 6 characters)  
let password = document.getElementById("password").value;  
if (password.length < 6) {  
    document.getElementById("passwordError").innerText = "Password must be at least 6 characters long.";  
    valid = false;  
}  
  
// Mobile Number Validation (Exactly 10 digits)  
let mobile = document.getElementById("mobile").value;  
if (!/^\\d{10}$/.test(mobile)) {  
    document.getElementById("mobileError").innerText = "Mobile Number should contain exactly 10 digits.";  
    valid = false;  
}  
  
// Return true if form is valid, false if not  
return valid;  
}  
</script>  
  
</body>  
</html>
```

RESULT : Thus the JavaScript to validate the following fields of the Registration page

OUTPUT :

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