

HTML

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>DOM Event
Challenge</title>

<style>

  body {

    font-family: Arial, sans-
serif;

    margin: 40px;

    text-align: center;

    background-color:
#f5f5f5;

  }

  form {

    background: white;

    padding: 20px;

    border-radius: 8px;

    display: inline-block;

    box-shadow: 0 0 10px
rgba(0,0,0,0.1);

  }

  input, button {

    margin: 8px;

    padding: 8px;

    border-radius: 5px;

    border: 1px solid #ccc;

  }

  #message {

    margin-top: 20px;

    font-weight: bold;

    color: #333;

  }

</style>

</head>

<body>

  <h1>DOM Event
Challenge</h1>

  <form id="userForm">

    <input type="text"
id="name"
placeholder="Enter your
name" required><br>

    <input type="email"
id="email"
placeholder="Enter your
email" required><br>

    <label>Favorite
Color:</label>

    <input type="color"
id="favColor"><br>

    <label>Birthday:</label>

    <input type="date"
id="birthday"><br>

    <button
type="submit">Submit</butt
on>

  </form>

  <p id="message"></p>

  <button
id="changeBgBtn">Change
Background Color</button>

  <script
src="dom_event.js"></script
>

</body>

</html>
```

JS

```
document.getElementById("userForm").addEventListener("submit", function(event) {

    event.preventDefault(); // Prevent form from reloading the page


    const name = document.getElementById("name").value.trim();
    const email = document.getElementById("email").value.trim();
    const favColor = document.getElementById("favColor").value;
    const birthday = document.getElementById("birthday").value;
    const message = document.getElementById("message");


    // Display a personalized message
    if (name && email) {

        message.innerHTML = `Hello <span style="color:${favColor}">${name}</span>! 🎉 <br>

        Your email is <strong>${email}</strong> and your birthday is on <strong>${birthday ||
'N/A'}</strong>.`;

    } else {

        message.textContent = "Please fill out all required fields.";

    }

});


// Random background color changer

document.getElementById("changeBgBtn").addEventListener("click", function() {

    const randomColor = "#" + Math.floor(Math.random() * 16777215).toString(16);

    document.body.style.backgroundColor = randomColor;

});
```