

TITLE : Design a webpage for a Registration Form.

- **Aim:-** The aim of this experiment is to design and develop a responsive registration form webpage using HTML and CSS, with a focus on optimizing user experience across various devices. This includes implementing client-side form validation for accuracy, ensuring accessibility, cross-browser compatibility, and performance optimization. The form will include fields for Full Name, Email Address, Password, Confirm Password, Date of Birth, Gender, Country, and Profile Picture Upload, while prioritizing clear error messaging and secure data handling to create a user-friendly and reliable registration process.
- **Used Tags :-**
 - *HTML Tags Used :-*
 - *<!DOCTYPE html>*: Declares the HTML version being used (HTML5).
 - *<html>*: The root element of an HTML document.
 - *<head>*: Contains meta-information about the HTML document.
 - *<meta charset="UTF-8">*: Specifies the character encoding.
 - *<meta name="viewport" content="width=device-width, initial-scale=1.0">*: Sets the viewport for responsive design.
 - *<title>*: Sets the title of the HTML document.
 - *<body>*: Contains the content of the HTML document.
 - *<form id="registrationForm">*: Creates a form to collect user input.
 - *<h2>*: Defines a heading.
 - *<div class="form-group">*: Represents a form group container.
 - *<label>*: Associates a label with a form element.

- **`<input type="text">`**: Represents a text input field.
- **`<input type="email">`**: Represents an email input field.
- **`<input type="password">`**: Represents a password input field.
- **`<input type="date">`**: Represents a date input field.
- **`<select>`**: Represents a dropdown selection field.
- **`<button>`**: Creates a button for form submission.
- **``**: Represents a tooltip for password requirements.
- **`<option>`**: Represents options in a dropdown select.
- **`<accept>`**: Specifies accepted file types for file input.
- **CSS Tags Used (with details):**
 - **`<style>`**: Defines internal CSS styles.
 - **`body`**: Applies styles to the entire body.
 - **`.container`**: Applies styles to the container div.
 - **`form`**: Applies styles to the form.
 - **`.form-group`**: Applies styles to form groups.
 - **`label`**: Styles labels.
 - **`input[type="text"]`, `input[type="email"]`, `input[type="password"]`, `input[type="date"]`, `select`, `input[type="file"]`**: Styles various input types.
 - **`button`**: Styles the submit button.

- *button:hover*: Styles the submit button on hover.
- *.tooltip*: Styles the tooltip container.
- *.tooltiptext*: Styles the tooltip text.
- *.tooltiptext::after*: Styles the tooltip arrow.
- *@media only screen and (max-width: 600px)*: Applies responsive styles for screens with a maximum width of 600px.

- *Source Code :-*

- *Registration Form :-*

```
<!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>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }

    .container {
      width: 100%;
      max-width: 400px;
```

```
padding: 20px;
background-color: white;
    box-shadow: 0 0 20px rgba(0, 0, 255, 0.2); /* Increased shadow
visibility with blue tint */
border-radius: 8px;
}

form {
    display: flex;
    flex-direction: column;
}

.form-group {
    margin-bottom: 15px;
}

.form-group label {
    display: block;
    margin-bottom: 5px;
    font-size: 18px; /* Increased font size for labels */
    color: #007bff; /* Blue label text color */
}

.form-group input[type="text"],
.form-group input[type="email"],
.form-group input[type="password"],
.form-group input[type="date"],
.form-group select,
.form-group input[type="file"] {
    width: 100%;
    padding: 10px;
    border: 1px solid #007bff; /* Blue border */
    border-radius: 4px;
    box-sizing: border-box;
    font-size: 16px;
    transition: box-shadow 0.3s; /* Adding a transition effect for
box-shadow */
}

/* Add a more visible blue shadow on focus */
```

```
.form-group input[type="text"]:focus,  
.form-group input[type="email"]:focus,  
.form-group input[type="password"]:focus,  
.form-group input[type="date"]:focus,  
.form-group select:focus,  
.form-group input[type="file"]:focus {  
    box-shadow: 0 0 10px rgba(0, 0, 255, 0.4); /* More visible blue  
shadow on focus */  
}
```

```
button {  
    background-color: #007bff; /* Blue background */  
    color: white;  
    padding: 10px;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
    font-size: 16px;  
}
```

```
button:hover {  
    background-color: #FF69B4; /* Pink on hover */  
}
```

```
/* Tooltip Container */  
.tooltip {  
    position: relative;  
    display: inline-block;  
}
```

```
/* Tooltip Text */  
.tooltip .tooltiptext {  
    visibility: hidden;  
    width: 280px;  
    background-color: #555;  
    color: #fff;  
    text-align: left;  
    border-radius: 6px;  
    padding: 8px 10px;  
    position: absolute;
```

```
z-index: 1;
bottom: 100%;
left: 50%;
margin-left: -140px;
opacity: 0;
transition: opacity 0.3s;
}

/* Tooltip Arrow */
.tooltip .tooltiptext::after {
  content: "";
  position: absolute;
  top: 100%;
  left: 50%;
  margin-left: -5px;
  border-width: 5px;
  border-style: solid;
  border-color: #555 transparent transparent transparent;
}

/* Show the tooltip text when you mouse over the tooltip container */
.tooltip:hover .tooltiptext {
  visibility: visible;
  opacity: 1;
}

/* Show the tooltip text when the input is focused */
.tooltip input:focus + .tooltiptext {
  visibility: visible;
  opacity: 1;
}

/* Responsive Styles */
@media only screen and (max-width: 600px) {
  .container {
    margin: 10px;
    width: auto;
  }
}
</style>
```

```

</head>
<body>
  <div class="container">
    <form id="registrationForm" action="#" method="post">
      <h2>Registration Form</h2>

      <!-- Full Name -->
      <div class="form-group">
        <label for="firstName">First Name:</label>
        <input type="text" id="firstName" name="firstName" required>
      </div>
      <div class="form-group">
        <label for="lastName">Last Name:</label>
        <input type="text" id="lastName" name="lastName" required>
      </div>

      <!-- Email -->
      <div class="form-group">
        <label for="email">Email Address:</label>
        <input type="email" id="email" name="email" required>
      </div>

      <!-- Password -->
      <div class="form-group tooltip">
        <label for="password">Password:</label>
        <input type="password" id="password" name="password"
required
          pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#$%^&*~\W]).{8,}">
        <span class="tooltiptext">
          Password must contain:<br>
          - At least one uppercase letter<br>
          - At least one lowercase letter<br>
          - At least one number<br>
          - At least one special character<br>
          - Be at least 8 characters long
        </span>
      </div>

```

```
<div class="form-group">
  <label for="confirmPassword">Confirm Password:</label>
  <input type="password" id="confirmPassword"
name="confirmPassword" required>
</div>
```

```
<!-- Date of Birth -->
<div class="form-group">
  <label for="dob">Date of Birth:</label>
  <input type="date" id="dob" name="dob" required>
</div>
```

```
<!-- Gender -->
<div class="form-group">
  <label>Gender:</label>
  <select id="gender" name="gender" required>
    <option value="">Select...</option>
    <option value="male">Male</option>
    <option value="female">Female</option>
    <option value="other">Other</option>
  </select>
</div>
```

```
<!-- Country -->
<div class="form-group">
  <label for="country">Country:</label>
  <select id="country" name="country" required>
    <option value="">Select...</option>
    <option value="india">India</option>
    <option value="usa">USA</option>
    <option value="uk">UK</option>
  </select>
</div>
```

```
<!-- Profile Picture -->
<div class="form-group">
  <label for="profilePicture">Profile Picture:</label>
  <input type="file" id="profilePicture" name="profilePicture"
accept="image/*">
</div>
```



```
<button type="submit">Register</button>
</form>
</div>
</body>
</html>
```

- **Outputs :-**

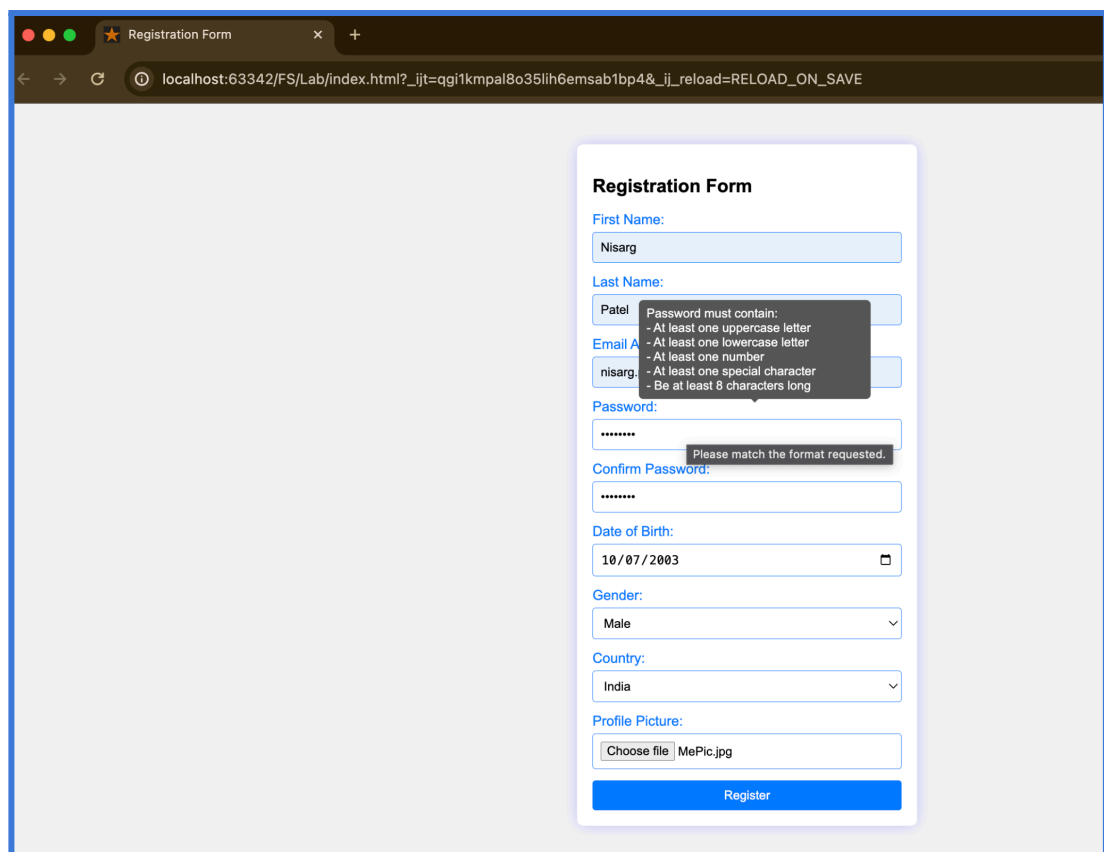
- *Visual Representation of the Form :-*

The screenshot displays a web browser window with a single tab titled "Registration Form". The address bar shows the local host URL: `localhost:63342/FS/Lab/index.html?_ijt=qgi1kmpal8o35lih6emsab1bp4&_ji_reload=RELOAD_ON_SAVE`. The main content area features a registration form with the following fields and values:

- First Name:** Nisarg
- Last Name:** Patel
- Email Address:** nisarg.patel.btech2021@sitpune.edu.in
- Password:** *****
- Confirm Password:** *****
- Date of Birth:** 10/07/2003
- Gender:** Male
- Country:** India
- Profile Picture:** Choose file | MePic.jpg

A pink "Register" button is located at the bottom of the form.

- **Highlighting Features :-**



The screenshot displays a web browser window with a single tab titled "Registration Form". The address bar shows the URL: `localhost:63342/FS/Lab/index.html?_ijt=qgi1kmpal8o35lih6emsab1bp4&_ij_reload=RELOAD_ON_SAVE`. The main content area features a "Registration Form" with the following fields and elements:

- First Name:** Input field containing "Nisarg".
- Last Name:** Input field containing "Patel".
- Email Address:** Input field containing "nisarg.". A tooltip message is displayed over this field: "Password must contain:
 - At least one uppercase letter
 - At least one lowercase letter
 - At least one number
 - At least one special character
 - Be at least 8 characters long".
- Password:** Input field with masked characters (dots). A tooltip message is displayed: "Please match the format requested."
- Confirm Password:** Input field with masked characters (dots).
- Date of Birth:** Input field containing "10/07/2003" with a calendar icon.
- Gender:** Dropdown menu with "Male" selected.
- Country:** Dropdown menu with "India" selected.
- Profile Picture:** File upload area showing "Choose file" and "MePic.jpg".
- Register:** A blue button at the bottom of the form.

Registration Form

First Name:
Nisarg

Last Name:
Patel

Email Address:
nisarg.patel.btech2021@sitpune.edu.in

Password:

Confirm Password:

Date of Birth:
10 / 07 / 2003

Gender:
Select...
✓ Male
Female
Other

Profile Picture:
Choose file MePic.jpg

Register

Registration Form

First Name:

Last Name:

Email Address:

Password:

Confirm Password:

Date of Birth:

July 2003

S	M	T	W	T	F	S
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Clear Today

register

● Description :-

- This form is designed to efficiently collect essential information from users, ensuring data accuracy through validation mechanisms.
- To maintain a neat and organized layout, the form is constructed using HTML tables. Within these tables, users can input their personal details, including their first name, last name, email address, password, date of birth, gender, country, and even upload a profile picture.
- Labels are thoughtfully associated with each input field, enhancing user-friendliness by providing clear descriptions of what information is expected. Specific validation rules have been set for certain fields, such as ensuring that passwords meet complexity requirements.

- A noteworthy feature is the tooltip associated with the password field, providing users with clear guidelines on password creation. The tooltip appears when hovering over the input field or when the input field is focused, offering helpful tips for password strength.
 - Additionally, users can select their gender and country of residence through dropdown menus, simplifying the process. Two essential buttons, "Reset" and "Submit," enable users to clear all data or transmit their information for processing, respectively.
 - The form's responsive design ensures that it adapts to different screen sizes, maintaining a user-friendly interface across devices. It offers a well-structured and visually appealing means for student registration, with a focus on data accuracy and user experience.
- [GitHub Link](#)
 - [Live Link \(Zoom out to see the full form \)](#)