

**TITLE :** Design a webpage for a Registration Form.

- **Aim:-** The primary goal of this experiment is to design a user-friendly and visually appealing web page for a registration form. The aim is to optimize the user experience by creating an intuitive and efficient interface that encourages users to provide accurate information seamlessly.
- **Used Tags :-**

**→ DOCUMENT STRUCTURE TAGS:**

- ◆ **<!DOCTYPE html>:** Declares the HTML version being used (HTML5).
- ◆ **<html>:** The root element of an HTML document.

**→ HEAD SECTION TAGS:**

- ◆ **<head>:** Contains meta-information about the HTML document.
- ◆ **<title>:** Sets the title of the HTML document that appears in the browser tab.

**→ BODY SECTION TAGS:**

- ◆ **<body>:** Contains the content of the HTML document.

**→ FORM AND INPUT TAGS:**

- ◆ **<form id="nameForm">:** Creates a form to collect user input.
- ◆ **<label>:** Associates a label with a form element.
- ◆ **<input type="text" maxlength="30" pattern="[a-zA-Z]+" data-info="(max 30 characters a-z and A-Z)">:** Represents a text input field with specified attributes.

- ◆ `<input type="number" min="1" max="31">`: Represents a number input field for the day.
- ◆ `<input type="number" min="1" max="12">`: Represents a number input field for the month.
- ◆ `<input type="number" min="1900" max="2024">`: Represents a number input field for the year.
- ◆ `<input type="email">`: Represents an email input field.
- ◆ `<input type="number" minlength="10" maxlength="10">`: Represents a number input field for mobile number.
- ◆ `<input type="radio" name="gender" value="male">`: Represents a radio button for selecting "Male".
- ◆ `<input type="radio" name="gender" value="female">`: Represents a radio button for selecting "Female".
- ◆ `<textarea></textarea>`: Represents a multiline text input field.
- ◆ `<input type="text" maxlength="30" pattern="[a-zA-Z]+" title="Max 30 characters, a-z and A-Z">`: Represents a text input field with validation title.
- ◆ `<input type="number" minlength="6" maxlength="6" title="6 digit number">`: Represents a number input field with validation title.
- ◆ `<input type="text" maxlength="30" pattern="[a-zA-Z]+" title="Max 30 characters, a-z and A-Z">`: Represents a text input field with validation title.
- ◆ `<select>`: Represents a dropdown selection field.

**→ TABLE TAGS:**

- ◆ **<table>**: Defines a table to organize form elements.
- ◆ **<tr>**: Defines a table row.
- ◆ **<td>**: Defines a table cell.
- ◆ **<th>**: Defines a header cell in a table.

**→ CHECKBOX TAGS:**

- ◆ **<input type="checkbox">**: Represents a checkbox for multiple selections.

**→ BREAK TAGS:**

- ◆ **<br>**: Inserts a line break.

**→ COURSE SELECTION TAGS:**

- ◆ **<input type="radio">**: Represents radio buttons for selecting a course.

**→ SUBMIT AND RESET BUTTONS:**

- ◆ **<input type="submit">**: Creates a submit button to send the form data.
- ◆ **<input type="reset">**: Creates a reset button to clear the form data.

**● Source Code :-****● Registration Form :-**

```
<!DOCTYPE html>
<html>
<head>
<style>
```

```
body {
  background-color: #f0f0f0;
  font-family: Arial, sans-serif;
}

table {
  border-collapse: collapse;
  width: 70%;
  margin: 20px auto;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
}

th {
  background-color: #3498db;
  color: white;
}

th, td {
  padding: 10px;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

input[type="text"], input[type="number"], input[type="email"], textarea, select {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 4px;
  margin-top: 5px;
  font-size: 16px;
  position: relative;
}

input[type="text"]:hover::before,
input[type="number"]:hover::before,
input[type="email"]:hover::before,
textarea:hover::before {
  content: attr(data-info);
  position: absolute;
  background-color: #3498db;
  color: white;
  padding: 5px;
  border-radius: 5px;
```

```
margin-left: 10px;
font-size: 12px;
opacity: 0;
transition: opacity 0.3s;
}

input[type="text"]:hover::before,
input[type="number"]:hover::before,
input[type="email"]:hover::before,
textarea:hover::before {
  opacity: 1;
}

input[type="radio"], input[type="checkbox"] {
  margin-right: 5px;
}

.center-align {
  text-align: center;
}

.buttons {
  margin-top: 20px;
}

input[type="submit"], input[type="reset"] {
  background-color: #3498db;
  color: white;
  padding: 10px 20px;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}

input[type="submit"]:hover, input[type="reset"]:hover {
  background-color: #2980b9;
}
</style>
</head>
<body>
<div align="center">
  <table>
    <thead>
      <tr>
        <th colspan="2">STUDENT REGISTRATION FORM</th>
      </tr>
    </thead>
```

```
<tbody>
<tr>
<td>First Name </td>
<td><input type="text" maxlength="30" pattern="[a-zA-Z]+" data-info="(max 30
characters a-z and A-Z)"></td>
</tr>
<tr>
<td>Middle Name</td>
<td><input type="text" maxlength="30" pattern="[a-zA-Z]+" data-info="(max 30
characters a-z and A-Z)"></td>
</tr>
<tr>
<td>Last Name </td>
<td><input type="text" maxlength="30" pattern="[a-zA-Z]+" data-info="(max 30
characters a-z and A-Z)"></td>
</tr>
<tr>
<td>Date of Birth</td>
<td>
Day: <input type="number" min="1" max="31">
Month: <input type="number" min="1" max="12">
Year: <input type="number" min="1900" max="2024">
</td>
</tr>
<tr>
<td>Email ID</td>
<td><input type="email"></td>
</tr>
<tr>
<td>Mobile Number (10 digit number)</td>
<td><input type="number" minlength="10" maxlength="10"></td>
</tr>
<tr>
<td>Gender</td>
<td>
<input type="radio" name="gender" value="male"> Male
<input type="radio" name="gender" value="female"> Female
</td>
</tr>
<tr>
<td>Address</td>
<td><textarea></textarea></td>
</tr>
<tr>
<td>City (max 30 characters a-z and A-Z)</td>
<td>
```

```

        <input type="text" maxlength="30" pattern="[a-zA-Z]+" title="Max 30 characters,
a-z and A-Z">
    </td>
</tr>
<tr>
    <td>PIN Code (6 digit number)</td>
    <td>
        <input type="number" minlength="6" maxlength="6" title="6 digit number">
    </td>
</tr>
<tr>
    <td>State (max 30 characters a-z and A-Z)</td>
    <td>
        <input type="text" maxlength="30" pattern="[a-zA-Z]+" title="Max 30 characters,
a-z and A-Z">
    </td>
</tr>
<tr>
    <td>Country</td>
    <td>
        <select>
            <option value="India">India</option>
        </select>
    </td>
</tr>
<tr>
    <td>Hobbies</td>
    <td>
        <input type="checkbox" value="coding"> Coding
        <input type="checkbox" value="blog-writing"> Blog-Writing
        <input type="checkbox" value="hacking"> Hacking
        <input type="checkbox" value="cricket"> Cricket
        <input type="checkbox" value="others"> Others
    </td>
</tr>
<tr>
    <td>Qualifications</td>
    <td>
        <table>
            <tr>
                <th>Sl. No.</th>
                <th>Examination</th>
                <th>Board</th>
                <th>Percentage</th>
                <th>Year of Passing</th>
            </tr>
            <tr>

```

```

<td>1</td>
<td>Class X</td>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<td>2</td>
<td>Class XII</td>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<td>3</td>
<td>Graduation</td>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<td>4</td>
<td>Masters</td>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<td></td>
<td></td>
<td align="center">(10 char max)</td>
<td align="center">(upto 2 decimal)</td>
<td></td>
</tr>
</table>
</td>
</tr>
<tr>
<td>Courses Applied For</td>
<td>
<input type="radio" value="Btech"> B.Tech
<input type="radio" value="M.Tech"> M.Tech
<input type="radio" value="PhD"> PhD
<input type="radio" value="Ms"> MS
</td>
</tr>
<tr>

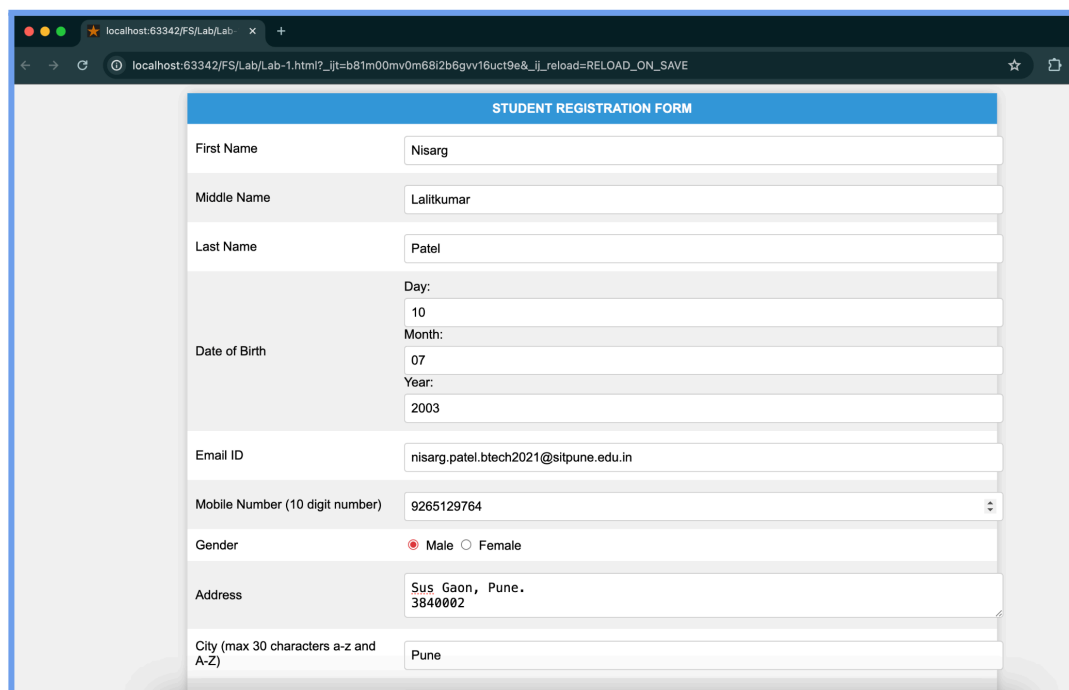
```



```
<td align="center" colspan="2" class="buttons">
  <input type="submit" value="Submit">
  <input type="reset" value="Reset">
</td>
</tr>
</tbody>
</table>
</div>
</body>
</html>
```

## ● Outputs :-

### ● Visual Representation of the Form :-



The screenshot displays a web browser window with a single tab titled 'localhost:63342/FS/Lab/Lab-1.html'. The address bar shows the URL 'localhost:63342/FS/Lab/Lab-1.html?\_ijt=b81m00mv0m68i2b6gvv16uct9e&\_ij\_reload=RELOAD\_ON\_SAVE'. The main content area features a form titled 'STUDENT REGISTRATION FORM' with a blue header. The form contains the following fields and values:

STUDENT REGISTRATION FORM	
First Name	Nisarg
Middle Name	Lalitkumar
Last Name	Patel
Date of Birth	Day: 10 Month: 07 Year: 2003
Email ID	nisarg.patel.btech2021@sitpune.edu.in
Mobile Number (10 digit number)	9265129764
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Address	Sus Gaon, Pune. 3840002
City (max 30 characters a-z and A-Z)	Pune

localhost:63342/FS/Lab/Lab-1.html?\_ijt=b81m00mv0m68i2b6gvv16uct9e&\_ij\_reload=RELOAD\_ON\_SAVE

PIN Code (6 digit number) 384002

State (max 30 characters a-z and A-Z) Maharashtra

Country India

Hobbies ☒ Coding ☒ Blog-Writing ☒ Hacking ☐ Cricket ☐ Others

Qualifications

Sl. No.	Examination	Board	Percentage	Year of Passing
1	Class X	CBSE	98%	2019
2	Class XII	CBSE	94%	2021
3	Graduation	SIT	99%	2025
4	Masters	NA	NA	NA

(10 char max) (upto 2 decimal)

Courses Applied For ☒ B.Tech ☒ M.Tech ☐ PhD ☐ MS

Submit Reset

localhost:63342/FS/Lab/Lab-1.html?\_ijt=b81m00mv0m68i2b6gvv16uct9e&\_ij\_reload=RELOAD\_ON\_SAVE

STUDENT REGISTRATION FORM

First Name Nisarg

Middle Name Lalitkumar

Last Name Patel

Day: 10  
Month: 07  
Year: 2003

Date of Birth

Email ID nisarg.patel.btech2021@satpune.edu.in

Mobile Number (10 digit number) 9285129764

Gender ☒ Male ☐ Female

Address 501, Gaon, Pune, 384002

City (max 30 characters a-z and A-Z) Pune

PIN Code (6 digit number) 384002

State (max 30 characters a-z and A-Z) Maharashtra

Country India

Hobbies ☒ Coding ☒ Blog-Writing ☒ Hacking ☐ Cricket ☐ Others

Qualifications

Sl. No.	Examination	Board	Percentage	Year of Passing
1	Class X	CBSE	98%	2019
2	Class XII	CBSE	94%	2021
3	Graduation	SIT	99%	2025
4	Masters	NA	NA	NA

(10 char max) (upto 2 decimal)

Courses Applied For ☒ B.Tech ☒ M.Tech ☐ PhD ☐ MS

Submit Reset

**● Description :-**

- The provided HTML source code creates a student registration form designed to collect essential information from users. This form encompasses various input fields and incorporates validation mechanisms to ensure data accuracy.
- To maintain a structured and organized layout, the form is structured using HTML tables. Within these tables, users can input their personal details, including their name, date of birth, email address, gender, contact information, address, hobbies, educational qualifications, and their preferred course of study.
- Labels are thoughtfully associated with each input field, enhancing user-friendliness by providing clear descriptions of what information is expected. Moreover, specific validation rules and requirements have been implemented for certain fields, such as ensuring that email addresses are in the correct format and that phone numbers consist of the correct number of digits.
- The code offers users the option to select their desired course of study through radio buttons, making it easy for them to indicate their academic preferences.
- Additionally, the form includes two essential buttons: a "Reset" button and a "Submit" button. The "Reset" button is designed to clear all entered data, providing users with a convenient way to start over if needed. On the other hand, the "Submit" button is the means by which users can transmit their information for processing.
- Overall, the HTML structure of this form adheres to best practices, ensuring an organized and user-friendly interface for student registration. The form's layout and validation mechanisms contribute to a seamless user experience, facilitating the collection of accurate and structured data.