FULL STACK DEVLOPMENT

ASSIGNMENT - 1

Prepared by:

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Create a basic yet visually appealing webpage for a user registration form using only HTML. The page should include essential elements such as input fields for name, email, and password. Implement a clean and straightforward design that is responsive to different screen sizes. Ensure proper labeling and organization of form elements, demonstrating a fundamental understanding of HTML structure and layout principles.

Description

The provided HTML source code meticulously constructs a student registration form, encompassing a comprehensive array of input fields and robust validation mechanisms. Capturing crucial details like the student's name, date of birth, email, gender, contact details, address, hobbies, educational qualifications, and the preferred course of study, the form serves as a comprehensive tool for collecting essential information.

To enhance user experience and maintain a clean layout, the form adopts a well-structured table format. Employing a variety of input elements, including text inputs, radio buttons, checkboxes, and text areas, the design prioritizes clarity by associating each input field with a descriptive label. Specific validation measures are implemented for certain fields, such as email and phone number formats, ensuring data accuracy.

A noteworthy feature is the incorporation of radio buttons for streamlined course selection. The HTML structure aligns with best practices, offering a well-organized and user-friendly interface for the student registration process. Additionally, the inclusion of a reset button facilitates the clearing of entered data, while the submit button seamlessly initiates the transmission of information. Overall, this HTML code exemplifies a thoughtful and comprehensive approach to student registration, fostering an efficient and user-centric interaction.

Commented source code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>

</head>

<body>
    <div align=>
        <h2>Student Registration Form </h2>
    </div>
    <form>
        <table>
            <!-- First Name -->
            <tr>
                <td> <label for="fname"><b>First Name:</b></label> </td>
                <td> <input type="text" placeholder="Enter First Name" name="fname" id="fname" required></td>
            </tr>
            <!-- Middle Name -->
            <tr>
                <td> <label for="mname"><b>Middle Name:</b></label> </td>
                <td> <input type="text" placeholder="Enter Middle Name" name="mname" id="mname" required></td>
            </tr>
            <!-- Last Name -->
            <tr>
                <td> <label for="lname"><b>Last Name:</b></label> </td>
                <td> <input type="text" placeholder="Enter Last Name" name="lname" id="lname" required></td>
            </tr>
            <!-- Date of Birth -->
            <tr>
                <td> <label for="dob"><b>Date of Birth:</b></label> </td>
                <td> <input type="date" placeholder="Enter Date of Birth" name="dob" id="dob" required></td>
            </tr>
            <!-- Email -->
            <tr>
                <td> <label for="email"><b>Email Id:</b></label> </td>
                <td> <input type="email" placeholder="Enter Email" name="email" id="email" required></td>
            </tr>
            <!-- Mobile Number -->
            <tr>
                <td> <label for="mob"><b>Mobile Number:</b></label> </td>
                <td> <input type="tel" placeholder="Enter Mobile Number" name="mob" id="mob" required></td>
            </tr>
            <!-- Gender -->
            <tr>
                <td> <label for="gender"><b>Gender:</b></label> </td>
                <td> <input type="radio" id="male" name="gender" value="male">
                    <label for="male">Male</label>
                    <input type="radio" id="female" name="gender" value="female">
                    <label for="female">Female</label>
                    <input type="radio" id="other" name="gender" value="other">
                    <label for="other">Others</label><br>
                </td>
            </tr>
            <!-- Adress -->
            <tr>
                <td> <label for="address"><b>Address:</b></label> </td>
                <td> <textarea id="address" name="address" rows="4" cols="25"></textarea><br></td>
            </tr>
            <!-- City -->
            <tr>
                <td> <label for="city"><b>City:</b></label> </td>
                <td> <input type="text" placeholder="Enter City" name="city" id="city" required><br></td>
            </tr>
```

Commented source code

```html
<!-- Pincode -->
<tr>
    <td> <label for="pincode"><b>Mobile Number:</b></label> </td>
    <td> <input type="number" placeholder="Enter pincode" name="pincode" id="pincode" required><br></td>
</tr>
<!-- State -->
<tr>
    <td> <label for="state"><b>State:</b></label> </td>
    <td> <input type="text" placeholder="Enter State" name="state" id="state" required><br></td>
</tr>
<!-- Country -->
<tr>
    <td> <label for="country"><b>Country:</b></label> </td>
    <td> <input type="text" placeholder="Enter country" name="country" id="country" required></td>
</tr>
<!-- Hobby -->
<tr>
    <td><label for="hobby"><b>Hobbies:</b></label></td>
    <td><input type="checkbox" id="coding" name="hobby" value="coding">
        <label for="coding">Coding</label>
        <input type="checkbox" id="Blog" name="hobby" value="blog_writing">
        <label for="blog_writing">Blog-writing</label>
        <input type="checkbox" id="hacking" name="hobby" value="hacking">
        <label for="hacking">Hacking</label>
        <input type="checkbox" id="cricket" name="hobby" value="cricket">
        <label for="cricket">Cricket</label>
        <input type="checkbox" id="others" name="hobby" value="others">
        <label for="others">Others</label>
        <input type="text" placeholder="Enter other hobby" name="hobby" id="others">
    </td>
</tr>
<!-- Qualification -->
<tr>
    <td><label for="qualification"><b>Qualifications:</b> </label></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>
<tr>
    <td>2</td>
    <td>Class XII</td>
    <td><input type="text"></td>
    <td><input type="text"></td>
    <td><input type="text"></td>
</tr>
```

Commented source code

```html
                <tr>
                    <td>3</td>
                    <td>Graduation</td>
                    <td><input type="text"></td>
                    <td><input type="text"></td>
                    <td><input type="text"></td>
                </tr>
                </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>

            <!-- Course -->

            <tr>
                <td><label for="course"><b>Courses Applied For:</b></label></td>
                <td> <input type="radio" id="btech" name="course" value="B.Tech">
                    <label for="btech">B.Tech</label>
                    <input type="radio" id="mtech" name="course" value="M.Tech">
                    <label for="mtech">M.tech</label>
                    <input type="radio" id="phd" name="course" value="PhD">
                    <label for="phd">PhD</label>
                    <input type="radio" id=" ms" name="course" value="MS">
                    <label for="ms">MS</label>
                </td>
            </tr>
            <!-- Submit and Reset buttons -->
            <tr>
                <td align="right"><input type="submit" value="Submit"></td>
                <td align="left"><input type="reset" value="Reset"></td>
            </tr>
            </table>
        </form>

</body>

</html>
```

Student Registration Form

First Name:	Apoorv
Middle Name:	Anuppam
Last Name:	Gupta
Date of Birth:	11-03-2004 📅
Email Id:	er.apoorvgupta@gmail.com
Mobile Number:	9821380213
Gender:	● Male ○ Female ○ Others
Address:	Symbiosis Institute of Technology, pune
City:	Pune
Mobile Number:	412115
State:	Maharastra
Country:	india
Hobbies:	☑ Coding ☐ Blog-writing ☑ Hacking ☐ Cricket ☑ Others cycling

Sl. No.	Examination	Board	Percentage	Year of Passing
1	Class X	CBSE	93.5%	2019
2	Class XII	CBSE	94.7%	2021
3	Graduation	AIML	9.46/10	2025
4	Masters	????	10/10	2028
		(10 char max)	(upto 2 decimal)	

Qualifications: (as shown in table above)

Courses Applied For: ○ B.Tech ● M.tech ○ PhD ○ MS

Submit Reset

HTML Tags used in the Code

1. DOCUMENT STRUCTURE TAGS:
- <!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.

2. HEAD SECTION TAGS:
- <title>: Sets the title of the HTML document that appears in the browser tab.

3. BODY SECTION TAGS:
- <body>: Contains the content of the HTML document.

4. FORM AND INPUT TAGS:
- <form>: Creates a form to collect user input.
  - id="nameForm": Assigns an identifier to the form for later reference.
- <label>: Associates a label with a form element.
- <input>: Creates various input fields for user data.
  - type="text", type="date", type="email", type="radio", type="tel":
  - Different input types for text, date, email, radio buttons, and telephone numbers.
  - pattern: Specifies a regular expression for input validation.
  - maxlength: Sets the maximum number of characters for text input.
  - required: Specifies that the input field must be filled out.
- <textarea>: Creates a multiline text input field.

HTML Tags used in the Code

5. 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.

6. CHECKBOX TAGS:

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

7. BREAK TAGS:

-
: Inserts a line break.

8. COURSE SELECTION TAGS:

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

9. 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.

About Me

Hi, I am Apoorv
I study at symbiosis pune,
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