

HTML Form and Validation

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HTML FORMS

- An HTML used to collect user input.
- The HTML `<form>` element is used to create an HTML form
- The `<form>` element is a container for different types of input elements such as text fields, radio buttons, checkboxes.

The `<label>` Elements:

- The `<label>` tag defines a label for HTML FORM element
- The `<label>` element is useful for screen-reader users
- The `for` attribute of the `<label>` tag should be equal to the `id` attribute of the `<input>` element to bind them together.

`<form>`

Full Name

Rohit Sharma

`<label for="fName"> Full Name </label>` `<input type="text" id="fName">`

Assignment: File → feedbackForm.html

While implementing please have a note on below points.

1. Age and Mobile form controls should allow only numbers
2. Email must have placeholder 'Ex. abc@gmail.com'
3. Feedback field should allow by default 7 lines (Ignore)
4. Full Name field should be autofocused
5. Please make 'Mobile' field as mandatory
6. Reset button should reset the filled data

feedbackForm.html

Full Name	<input type="text"/>
Age	<input type="text"/>
Mobile	<input type="text"/>
Email	<input type="text"/>
Qualification	<input type="text"/>
Feedback	<div></div>
Submit	Reset

Assignment

While implementing please have a note on below points.

1. File name → studentRegistrationForm.html
2. Don't worry about about alignment, We are going to cover It tomorrow
3. SSO sign in options should be font awesome icons respectively for Google, Instagram and facebook Also all these icons must be clickable and page should Open in new browser tab.
4. For Field Date of birth use the type="date" in order to get calendar

Student Registration form


First Name

Last Name

Email Address

Password

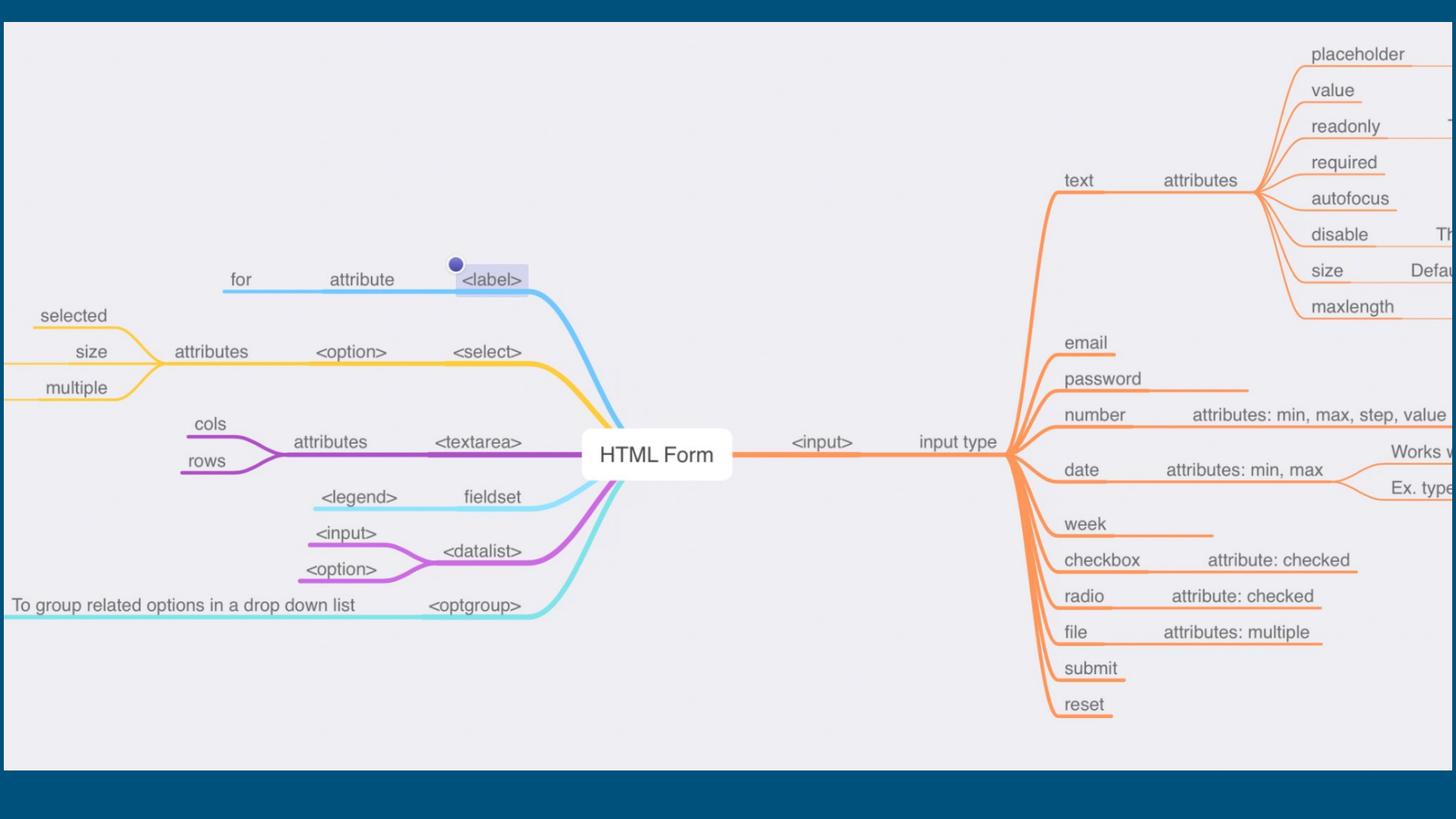
Graduation

Date of birth 

Pass out Year 

Permanent Address

SSO sign in options   



HTML Input Types

1 type="text"

Defines a single-line text field

2 type="email"

Defines a field for an e-mail address

3 type="password"

Defines a password field

4 type="tel"

field for entering a telephone number

5 type="number"

field for entering a number,
max min value allowed

6 type="search"

text field for entering a
search string

7 type="url"

field for entering a URL

8 type="file"

file-select field and a "Browse"
button for file uploads

 No file chosen

9 type="hidden"

A hidden field let web
developers include data
that cannot be seen or
modified by users when a
form is submitted.

10 type="button"

defines a clickable button

11 type="reset"

reset button which resets all
form values to its initial values

12 type="submit"

button which submits all
form values.

13 type="radio"

Only one radio button in a group can be selected at the same time.



14 type="checkbox"

checkbox let a user select one or more options



15 type="range"

defines a control for entering a number



16 type="image"

defines image as a submit button



17 type="color"

defines a color picker the default value is black.



18 type="month"

defines a month and year control



19 type="date"

defines a date picker. The resulting value includes year, month, and day.



20 type="time"

defines a control for entering a time.



21 type="week"

defines a week and year control



Form Validations

Common Examples:

- This field is required
- Please Enter Valid email address

Why form Validations are required?

- We want to get right data in the right format
- We want to protect ourselves

Different types of Validations:

1. Client-side validation
 - a. Built-in form validation: Like required, minLength, maxLength, min, max
 - b. JavaScript:
2. Server-side validation

Student Registration Form

Student Registration Form

First Name

Only First name

Last Name

Mobile Number

Please enter with cou

Email

Example: abc@gmail.co

Password

Country

India

Do you have bank account

YES

Date Of Birth

dd/mm/yyyy

Available in Week

Week --, ----

Preferred Time

--:-- --

Select Profile Photo

Choose file

No file chosen

Select Certificates

Choose files

No file chosen

Select Graduation

BE

Select Gender

☐ Male ☐ Female ☐ Others

Please Select Trainings

☐ Angular ☐ Java ☐ .Net ☐ DevOps

Address

Submit

Reset

Drop-down list

```
<label> Select Options</label>
```

```
<select>
```

```
  <option> Options 1 </option>
```

```
  <option> Options 2 </option>
```

```
  <option> Option 3 </option>
```

```
</select>
```

Buttons

Reset button: →

```
<input type="reset">
```

Submit button: →

```
<input type="submit">
```

Or

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

Syntax: **Text area**

```
<textarea cols="total_columns" rows="total_rows"> </textarea>
```

Checkbox and Radio button

Syntax: **Check box**

```
      <input type="checkbox" id="id_1">  
      <label for="id_1"> Label </label>
```

Syntax: **Radio Button**

```
      <input type="radio" name="gender">  
      <label> Male </label>  
      <input type="radio" name="gender">  
      <label> Female </label>
```

Syntax: **File**

```
      <input type="file" id="certificates" multiple>
```

<fieldset> Tag

```
<fieldset>
```

```
  <legend>
```

```
    <span> Student Registration Form </span>
```

```
  </legend>
```

```
</fieldset>
```

Employee Application form: File name → empApplicationForm.html. Form should be aligned properly

- Full Name: [Must be autofused, Required and max character length = 40]
- Email Address: [Required with placeholder → Ex. abc@gmail.com]
- Password: [Required and It should not be visible]
- Contact Number: [Required and Only numeric digits allowed not characters]
- Profile Photo: Option to upload
- Date of Birth: [Required and should have Calendar]
- Gender: [Either male or female or Transgender] → Radio Buttons
- Marital Status: [Either Yes or No]
 - Note: [Hint→ Radio buttons]
- Known Tools & Technology : [Angular, React, Python, Java, Jenkin, GIT, Database]
 - Employee can have hands-on multiple technologies [Hint → Check box]
- Designation: [UI Developer, Backend Developer, Full stack Developer, DevOps Engineer, Tester]
 - Note: Employee can be from only one profile [Hint → Dropdown]
- Country: [With some default value and readonly]
- Present Address: [Should have big text box with 7 lines]
- Submit Button:
- Clear Button: [Hine type = “reset”]