

HTML Part-5

INTRODUCTION TO HTML

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FORMS IN HTML

- In **HTML**, a form is a fundamental element used to collect and submit **user input** on a web page. It provides a structured way to gather information from the user, such as **text input, checkboxes, radio buttons, dropdown menus, and more**.
- A form is defined using the **<form>** element. It acts as a container for various input elements and defines the boundaries of the form.

```
<form>  
  Fields Here  
</form>
```

TEXT FIELD IN FORM

- The `<input type="text">` element creates a text input field where users can enter plain text. It is commonly used for collecting short or medium-length text input from the user.
- Here's an example:

```
<label for="username">Username:</label>  
<input type="text" id="username" name="username" placeholder="Name">
```

Username:

The **placeholder** attribute is used in HTML form input fields to provide a hint or example text to users about the expected input format or value for that field.

PASSWORD FIELD IN FORM

- The `<input type="password">` element is used to create a password input field in HTML forms. It is specifically designed for secure input of sensitive information like passwords, where the characters entered by the user are typically **masked** or **hidden**.

```
<label for="password">Password:</label>  
<input type="password" id="password" name="password">
```

The **id** attribute of the `<input>` element is used to link it with the associated `<label>` element.

The **name** attribute is used to identify the field when the form is submitted to the server.

CHECKBOX FIELD IN FORM

The `<input type="checkbox">` element is used to create a checkbox input field in HTML forms. It allows users to select one or more options from a predefined set of choices.

```
<label for="fruit1">Apple</label>
<input type="checkbox" id="fruit1" name="fruit" value="apple">

<label for="fruit2">Banana</label>
<input type="checkbox" id="fruit2" name="fruit" value="banana">

<label for="fruit3">Orange</label>
<input type="checkbox" id="fruit3" name="fruit" value="orange">
```

☐ Apple ☐ Banana ☐ Orange

The **value** attribute defines the value that will be submitted to the server when the checkbox is checked and the form is submitted.

RADIO BUTTON IN HTML

- The `<input type="radio">` element is used to create a radio button input field in HTML forms. Radio buttons allow users to choose a **single** option from a predefined set of choices.

```
<label for="option1">Male</label>
<input type="radio" id="option1" name="gender" value="male">

<label for="option2">Female</label>
<input type="radio" id="option2" name="gender" value="female">

<label for="option3">Other</label>
<input type="radio" id="option3" name="gender" value="other">
```

☒ Male ☐ Female ☐ Other

SELECT OPTION IN HTML

- The **<select>** element is used to create a dropdown or select menu in HTML forms. It allows users to choose a single option from a list of predefined options.

```
<label for="country"> Country: </label>
<select id="country" name="country" >
  <option value="usa"> United States </option>
  <option value="uk"> United Kingdom </option>
  <option value="australia"> Australia </option>
</select>
```



Country:

- United States
- Canada
- United Kingdom
- Australia

TEXTAREA IN HTML

- The **<textarea>** element is used to create a multi-line text input field in HTML forms. It allows users to enter and edit longer text or provide additional comments.

```
<label for="message">Message:</label>  
  <textarea id="message" name="message" rows="4" cols="50">  
</textarea>
```

The **rows** attribute specifies the number of visible text lines in the textarea. In this example, it is set to 4.

The **cols** attribute specifies the number of visible characters per line in the textarea. In this example, it is set to 50.

Message:

FILE IN HTML FORM

- The **<input type="file">** element is used to create a file upload field in HTML forms. It allows users to select and upload files from their device to the server.

```
<label for="upload">Select a file:</label>  
<input type="file" id="upload" name="upload">
```

Select a file: No file chosen

SUBMIT IN HTML FORM

- The `<input type="submit">` element is used to create a submit button in HTML forms. It allows users to submit the form data to the server for processing.

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

Select a file: No file chosen

RESET IN HTML FORM

- The `<input type="reset">` element is used to create a reset button in HTML forms. It allows users to reset or clear the form fields to their initial or default values.

```
<input type="reset" value="Reset Form">
```



The **value** attribute specifies the text that will be displayed on the button. In this case, it is set to "Reset".

Name

Email

FORM ACTION ATTRIBUTE

- The **action** attribute in an HTML form specifies the URL or destination where the form data should be submitted when the form is submitted by the user.
- The **action** attribute works in conjunction with the method attribute, which specifies the **HTTP method** used to send the form data to the server. The most commonly used methods are "**GET**" and "**POST**". If the **method** attribute is not specified, the form will default to using "**GET**".

```
<form action="submit.html" method="GET">  
  <input type="submit">  
</form>
```

WHAT IS GET METHOD ?

- The "**GET**" method is one of the **HTTP methods** used in web development to retrieve or request resources from a server. In the context of HTML forms, the "**GET**" method is used to **submit** form data as part of the URL parameters.
- When an **HTML** form uses the "**GET**" method, the form data is appended to the URL as query parameters. This means that the form data becomes visible in the URL itself.

```
<form action="search.php" method="get">  
  <input type="text" name="query">  
  <button type="submit">Search</button>  
</form>
```

When you type "apple" in search field the given url is generated:

search.php?query=apple

WHAT IS **POST** METHOD ?

- The "**POST**" method is one of the **HTTP** methods used in web development to send data to a server to **create** or **update** resources. In the context of **HTML** forms, the "**POST**" method is used to submit form data in the body of the **HTTP** request.
- When an **HTML** form uses the "**POST**" method, the form data is sent as part of the body of the **HTTP** request, rather than being appended to the URL. This makes the form data not directly visible in the **URL**.

```
<form action="submit.php" method="post">  
  <input type="text" name="name">  
  <input type="email" name="email">  
  <button type="submit">Submit</button>  
</form>
```

- The POST is used for sensitive information like user **login**, **register**, **add** record, **update** record or **delete** record. Get is used for **searching**.



End

I HOPE THIS SLIDE WILL HELP YOU TO CLEAR YOUR IDEA

