Web Basics - HTML5

Lesson 7. HTML Forms for User Input



Lesson Objectives



After completing this module you will be able to:

- Understand the role of forms in web pages
- Understand various HTML elements used in forms.
 - Single line text field
 - Text area
 - Check box
 - Radio buttons
 - Password fields
 - Pull-down menus
 - File selector dialog box

7.1 Role of forms in web pages HTML Forms for User Input



HTML forms are used to accept user inputs and then submit data for processing.

A form is an area that contains form elements.

Types of elements which can be included in a form are

- Label
- Single line text field
- Password field
- Text area
- Drop down menu
- Radio button
- Checkbox
- File selector box, etc...

7.1 Role of forms in web pages HTML Forms for User Input



User input forms are created using <form> tag.

Syntax:

```
<form method="get/post" action="URL"
  enctype="Encryption Type">
    Field definitions
</form>
```

- action: the URL of the script
- method: the HTTP request method to use, sometimes GET, but usually POST
- enctype: Specifies how the data is to be encoded.

7.1 Role of forms in web pages HTML Forms for User Input



Some more attributes which can be used in <form> tag are

| Attribute Name | Attribute Value | Description |
|-------------------|---------------------------------|--|
| name | Form name as a string | Mentions the name of a form. |
| autocomple te | On, off | Specifies whether a form should have autocomplete on or off |
| target | _blank, _self, _parent, _top | Specifies where to display the response that is received after submitting the form |
| novalidate | novalidate | Specifies that the form should not be validated during form submission. |

7.2 Various HTML elements used in forms HTML Form Elements



<input> element is the most used form tag.

An <input> tag includes the following attributes

- name: Name of the field which is required to send data(Key/Value pair) during form submission
- id: A unique identified of the field
- value: Sets a default value of the field
- maxlength: Specifies the maximum number of characters allowed in an <input> element
- readonly: Specifies that an input field is read-only
- size: Specifies the width, in characters, of an <input> element
- Disabled: specified that an input element should be displayed.
- type attribute of <input> tag specifies the field type

7.2 Various HTML elements used in forms

Text- related Elements



Text related elements can be created as shown below:

| Code | Element |
|--------------------------|----------------------|
| <input type="text"/> | Single line text box |
| <input type="password"/> | Password field |
| <input type="hidden"/> | Hidden field |

- If input exceeds more than one line, then create Multi-line input control using HTML <textarea > tag
- Syntax:

- Rows: Number of rows of text area box
- Cols: Number of columns of text area box
- Name: name of the element

7.2 Various HTML elements used in forms Checkbox Element



If more than one option is required to be selected from multiple options, then create checkbox as shown below:

- <input type="checkbox">
- Use checked attribute for selecting any checkbox to be selected by default Example:

| <pre><input name="hobbies" type="checkbox" value="Reading Books"/> Readi Books <input name="hobbies" type="checkbox" value="Net Surfing"/> Net Counting</pre> | _ |
|---|------|
| Surfing <input checked="" name="hobbies" type="checkbox" value="Singing"/> Sing | jing |
| Select your Hobbies: ☐ Reading Books ☐ Net Surfing ☑ Singing | |

7.2 Various HTML elements used in forms Radio Button



If only one option is required to be selected from multiple options, then create radio button as shown below:

- <input type="radio">
- Use checked attribute for making a radio button to be selected by default

Example:

```
<input type="radio" name="sector" value="Public">
Public
<input type="radio" name="sector" value="Private">
Private
```

Select your sector in which you are working: O Public O Private

7.2 Various HTML elements used in forms Drop down list



Drop down list allow the user to select one or more values from a predetermined options

Tags for creating drop down list with options are:

<select> : Creates drop down list

<option>: Defines an option in a select list.

| Tag name | Attribute | Description | |
|-------------------|-----------|---|--|
| <select></select> | Name | Defines a name for the drop down list | |
| | Size | Defines the number of visible options in a drop down list | |
| | Multiple | Allow to select multiple options at once | |
| | Disabled | Disable drop down list | |
| <option></option> | value | Specifies the value to be sent to a server | |
| | Selected | Makes option to be selected by default | |

Drop down list - Example



Select a country: India

7.2 Various HTML elements used in forms File Upload



File upload will allow the user to upload a file from the desktop to an application in browser.

The below code is used to define a file-select field and a "Browse..." button (for file uploads):

<input type="file"/>

| Attribute | Description | |
|-----------|---|--|
| Name | Defines a name for the file upload dialog box | |
| Disabled | Disable element | |
| Accept | Specify MIME type to describe the file type which accepts by a server | |

In <form> tag, use enctype="multipart/form-data" if file need to be uploaded using file selector form element.

7.2 Various HTML elements used in forms

File Upload- Example



```
<!DOCTYPE html>
<html>
<body>
     <form method="post" action="success.html"</pre>
       enctype="multipart/formdata">
       Select a photo to upload:
       <input type="file" name="photo"/>
      </form>
</body>
</html>
```

Select a photo to upload: Browse...

7.2 Various HTML elements used in forms Button



Different types of button which is possible to be created in HTML5 are as shown below:

| Field type | Element | |
|--|---------------|--|
| <input type="button"></input | Button | A clickable button, that activates a JavaScript when it is clicked |
| <input type="submit"></input | Submit button | Defines a button for submitting a form |
| <input type="reset"></input | Reset button | Define a reset button (resets all form values to default values) |

Demo



CheckboxExample.html
FormExamples.html
Passwordfield
RadioButtonExample
RadioExample
TextFieldExample.html
FormSubmission.html

Lab



Lab 7

Summary



After completing this module you now:

- Understand the role of forms in web pages
- Understand various HTML elements used in forms like:
 - Single line text field
 - Text area
 - Check box
 - Radio buttons
 - Password fields
 - Pull-down menus
 - File selector dialog box



Review Question



Question 1: Radio Buttons are used when you want the user to select:

- Option 1: one of a limited number of choices. Option 2: one or more options of a limited number of choices.
- Option 3: many of unlimited number of choices.

Question 2: METHOD attribute states the method to use when you send the form to the server.

True/ False

Question 3:The _____ attribute of form specifies how the data is to be encoded.



Review Question: Match the Following



- 1. Check Boxes
- 2. Radio Buttons
- 3. Password fields

- 4. Hidden Input Type
- 5. <select> tag in Drop Down List
- 6. <option> tag
 in Drop Down List

- a. Populate data in the list.
- b. Create a select list.
- c. Include form data without rendering it to the user.
- d. Entered text is shown as asterisks.
- e. Only one option of a limited number of choices.
- f. One or more options of a limited number of choices

