



DHA SUFFA UNIVERSITY

Department of Computer Science

CS-1201L

Introduction to Information and Communication Technology Fall 2020

LAB 03 – HTML Forms

OBJECTIVE(S)

- Learn about HTML Forms

HTML Forms

HTML Forms are required, when you want to collect some data from the site visitor. For example, during user registration you would like to collect information such as name, email address, credit card, etc.

A form will take input from the site visitor and then will post it to a back-end application. The back-end application will perform required processing on the passed data based on defined business logic inside the application.

There are various form elements available like text fields, textarea fields, drop-down menus, radio buttons, checkboxes, etc.

The HTML <form> tag is used to create an HTML form and it has following syntax:

```
➤ <form>  
    Form elements  
</form>
```

HTML Form Controls

There are different types of form controls that you can use to collect data using HTML form.

Text Input Controls

There are three types of text input used on forms.

Single-line text input controls

This control is used for items that require only one line of user input, such as search boxes or names. They are created using HTML <input> tag.

Example code

```
<form >  
    First name: <input type = "text" name = "first_name" />  
    <br>  
    Last name: <input type = "text" name = "last_name" />  
</form>
```

Attribute	Description
Type	Indicates the type of input control. For text input control it will be set to text.
Name	Used to give a name to the control.
Value	This can be used to provide an initial value inside the control.
Size	Allows to specify the width of the text-input control in terms of characters.
maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

Same attributes can be used for other input controls as are used for Text input control.

Password input controls

This is also a single-line text input but it masks the character as soon as a user enters it. They are also created using HTML `<input>` tag but type attribute is set to password.

Example code

```
<form>
  User ID : <input type = "text" name = "user_id" />
  <br>
  Password: <input type = "password" name = "password" />
</form>
```

Multiple-Line Text Input Controls

This is used when the user is required to give details that may be longer than a single sentence. Multi-line input controls are created using HTML `<textarea>` tag.

Example code:

```
<form>
  Description : <br />
  <textarea rows = "5" cols = "50" name = "description">
    Enter description here...
  </textarea>
</form>
```

Attribute	Description
Rows	Indicates the number of rows of text area box.
Cols	Indicates the number of columns of text area box.

Checkbox Control

Checkboxes are used when more than one option is required to be selected. They are also created using HTML `<input>` tag but type attribute is set to checkbox.

Example code

```
<form>
  <input type = "checkbox" name = "maths" > Maths
  <input type = "checkbox" name = "physics" > Physics
</form>
```

Attribute	Description
checked	Set to checked if you want to select it by default.

Radio Button Control

Radio buttons are used when out of many options, just one option is required to be selected. They are also created using HTML `<input>` tag but type attribute is set to radio.

Example code

```
<form>
  <input type = "radio" name = "subject" value = "maths"> Maths
  <input type = "radio" name = "subject" value = "physics"> Physics
</form>
```

Select Box Control

A select box, also called drop down box which provides option to list down various options in the form of drop down list, from where a user can select one or more options.

Example code

```
<form>
  <select name = "dropdown">
    <option value = "Maths" selected>Maths</option>
    <option value = "Physics">Physics</option>
  </select>
</form>
```

Attribute	Description
size	This can be used to present a scrolling list box.
multiple	If set to multiple then allows a user to select multiple items from the menu.

Following is the list of important attributes of `<option>` tag.

Attribute	Description
value	The value that will be used if an option in the select box is selected.
selected	Specifies that this option should be the initially selected value when the page loads.
label	An alternative way of labeling options.

File Upload Box

If you want to allow a user to upload a file to your web site, you will need to use a file upload box, also known as a file select box. This is also created using the `<input>` element but type attribute is set to file.

Example code

```
<form>
  <input type = "file" name = "fileupload" accept = "image/*" />
</form>
```

Attribute	Description
accept	Specifies the types of files that the server accepts.

Button Controls

There are various ways in HTML to create clickable buttons. You can also create a clickable button using `<input>` tag by setting its type attribute to button.

```
<form>
  <input type = "submit" name = "submit" value = "Submit" />
  <input type = "reset" name = "reset" value = "Reset" />
  <input type = "button" name = "ok" value = "OK" />
  <input type = "image" name = "imagebutton" src = "image.png" />
</form>
```

Attribute	Description
submit	This creates a button that automatically submits a form.
reset	This creates a button that automatically resets form controls to their initial values.
button	This creates a button that is used to trigger a client-side script when the user clicks that button.

Fieldset element

Defines a group of controls within a form.

Example code

```
<fieldset>
  <legend>Subscribe to the Newsletter</legend>
  <input type="email" name="email">
  <button>Ok</button>
</fieldset>
</form>
```

LAB ASSIGNMENT

1. Create a webpage that has the following template.

The form is titled "Sign Up" and is divided into two main sections, each with a green circular icon and a title.

1 Your basic info

Name: [Text input field with a small 'i' icon on the right]

Email: [Text input field]

Password: [Text input field with a small 'i' icon on the right]

Age:

- ☐ Under 13
- ☐ 13 or older

2 Your profile

Biography: [Text input field with a small 'i' icon on the right]

Job Role: [Dropdown menu showing "Business Owner"]

Interests:

- ☐ Development
- ☐ Design
- ☐ Business

[Green button labeled "Sign Up"]

SUBMISSION GUIDELINES

- Take a screenshot of each task.
- Place all the screenshots in a single word file labeled with Roll No and Lab No. e.g. 'cs201xxx_Lab01'.
- Convert the file into PDF.
- Submit the folder at [LMS](#)
- -100% policies for plagiarism.