

# Lab 03

## HTML FORMS

### Objective:

To familiarize the students with the **HTML forms** and different **input tags**.

### Activity Outcomes:

After this lab the students should be able to understand

- HTML input tags
- HTML Forms

### Instructor Note:

As pre-lab activity, read Chapter 3 from the textbook “Web Design Playground: HTML & CSS the Interactive Way 1st Edition, April 2019 by Paul McFedries”.

### 1) Useful Concepts

HTML forms are used to pass data to a server. A form can contain input elements like text fields, checkboxes, radio-buttons, submit buttons and more. A form can also contain select lists, textarea, fieldset, legend, and label elements. The `<form>` tag is used to create an HTML form.

`<form>`

input elements

`</form>`

The `<form>` tag

The `<form arguments> ... </form>` tag encloses form elements (and probably other elements as well). The arguments to form tell what to do with the user input

`action="url"` (required)

Specifies where to send the data when the Submit button is clicked

`method="get"` (default)

Form data is sent as a URL with `?form_data` info appended to the end

`method="post"`

Form data is sent in the body of the URL request

`target="target"` . Target tells where to open the page sent as a result of the request.

### Input Tags

There are many input tags in the forms.

Text input

A text field:

`<input type="text" name="textfield" value="with an initial value" />` A multi-line text field

`<textarea name="textarea" cols="24" rows="2">Hello</textarea>`

A password field:

`<input type="password" name="textfield3" value="secret" />`

Buttons

A submit button:

`<input type="submit" name="Submit" value="Submit" />` A reset button:

`<input type="reset" name="Submit2" value="Reset" />` A plain button:

`<input type="button" name="Submit3" value="Push Me" />`

## Radio Buttons

Radio buttons:

`<input type="radio" name="radiobutton" value="myValue1" />` male<br>

`<input type="radio" name="radiobutton" value="myValue2" checked="checked" />`female

## Checkboxes

`<input type="checkbox" name="checkbox" value="checkbox" checked="checked">`

Drop-down menu

`<select name="select">`

`<option value="red">red</option>`

`<option value="green">green</option>`

`<option value="BLUE">blue</option>`

`</select>`

## HTML 5 forms elements:

HTML5 is the current version of THML and still under development. HTML5 enhances HTML form not only by providing new attributes to existing elements and but also provide new elements which can be added to the HTML forms.

HTML5 attributes for existing elements Required: make an input field must to fill Pattern: used to validate user's input Readonly: makes an element read-only Disabled: is used to make an input field disabled

Autocomplete: adds autocomplete functionality to input fields

## HTML5 new form elements:

Datalist: an input field with predefined autocomplete options My favorite color: `<input type="text" list="color">`

`<datalist id="color">`

`<option>red</option>`

`<option>black</option>`

`</datalist>`

Email input field: checks user's input for valid email address

`<input type="email" name="email">`

Date input field: shows a calendar to choose a data

`<input type="date" name="dob">`

Color input field: displays color window to choose a color

`<input type="color" name="favcolor">`

Number input field: makes an input field to accept only numeric values

<input type="number">

## 2) Solved Lab Activities

<i>Sr. No</i>	<i>Allocated Time</i>	<i>Level of Complexity</i>	<i>CLO Mapping</i>
<i>Activity 1</i>	<i>30 Minutes</i>	<i>Medium</i>	<i>CLO-4</i>
<i>Activity 2</i>	<i>30 Minutes</i>	<i>Medium</i>	<i>CLO-4</i>

### Activity 1:

*Make a form with name, gender (use radio buttons) , password and submit form option. Use text box for input fields and buttons for submit option.*

### Solution:

```
<html>
<head>
<title>Get Identity</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
</head>
<body>
<p><b>Who are you?</b></p>
<form method="post" action="">
<p>Name:
<input type="text" name="name">
</p>
<p>Password:
<input type="password" name="password">
</p>
<p>Gender:
<label><input type="radio" name="gender" value="m" />Male</label>
<label><input type="radio" name="gender" value="f" />Female</label>
</p>
<p>:
<input type="submit" name="submit" value="Login" />

<input type="reset" name="reset" value="Cancel" />
</p>
</form>
</body>
</html>
```

## Output:

Get Identity x +

< > C File | C:/Users/wasee/Desktop/New%20Text%20Document%20(7).html

Who are you?

Name:

Password:

Gender: ☐ Male ☐ Female

## Activity 2:

### *Creating a Signup/Registration form*

### Solution:

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>

<form>
    <h1>Register</h1>
    <p>Please fill in this form to create an account.</p>
    <hr>

    <label for="email"><b>Email</b></label>
    <input type="text" placeholder="Enter Email" name="email"
id="email" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="psw"
id="psw" required>

    <label for="psw-repeat"><b>Repeat Password</b></label>
    <input type="password" placeholder="Repeat Password" name="psw-
```

```
repeat" id="psw-repeat" required>
    <hr>
    <p>By creating an account you agree to our <a href="#">Terms &
Privacy</a>.</p>

    <button type="submit" class="registerbtn">Register</button>

</form>

</body>
</html>
```

## Output:

**Register**

Please fill in this form to create an account.

**Email**  **Password**  **Repeat Password**

By creating an account you agree to our [Terms & Privacy](#).

## 3) Graded Lab Tasks


*Note: The instructor can design graded lab activities according to the level of difficult and complexity of the solved lab activities. The lab tasks assigned by the instructor should be evaluated in the same lab.*

### Lab Task 1

*Write the HTML code for JOB application form of CUI (find the complete job application form from CUI web site)*

NON\_faculty\_job\_applic...

file:///C:/Users/Administrator/Desktop/Web%20Engineering%206C/Labs/Assignemnt%20Solutions/Lab\_Assignment\_1/assign.html



**Non Faculty Job Application Form**  
**COMSATS University Islamabad**

Affix a recent photograph  
 3cm x 5cm

1.	<b>Post applied for</b> <i>(mention only one position)</i>	<input type="text"/>
2.	<b>Department</b> <i>(mention department, if required)</i>	<input type="text"/>
3.	<b>Campus</b> <i>(Please tick only one choice)</i>	<input type="checkbox"/> Sabawal <input type="checkbox"/> Attock
4.	<b>Name in full</b> <i>(Use CAPITAL LETTERS)</i>	<input type="text"/>
5.	<b>Father Name</b> <i>(Use CAPITAL LETTERS)</i>	<input type="text"/>


## Lab Task 2

Design the web template given below using Tables and forms concept in HTML. Moreover add colors to the fields and tables as mentioned below. Add links to connect face book, twitter, and terms & conditions.

Grey

Black

f Connect with Facebook

 Connect with Twitter

Dark Blue

Light blue

Or sign up with

First Name

Last Name

your@email.com

White fields

\*\*\*\*\*

By creating an account, you agree to our [Terms & Conditions](#)

Create account

Green button

Template by w3layouts