



Web Design

Rajani S

Department of Computer
Applications

Web Design

Designing Websites

Rajani S

Department of Computer Applications



Web Design

Forms



- A form is the usual way **information to communicate a browser to a server**
- A form is used to collect user input and (optionally) send it to a server.
- The **objects are called *controls*** or *widgets* (e.g., radio buttons and checkboxes)
- When the **Submit button of a form** is clicked, the form's **values are sent to the server**
- All of the widgets, or components of a form are defined in the content of a **<form>** tag



Web Design

Forms



- The only required attribute of `<form>` is **action**, which specifies the **URL of the application that is to be called when the Submit button is clicked**
- Attributes like action and method can be added to control where and how data is sent.
- **`<form action="homepage.html" method="post">`**
action = `https://pes.edu/`
- **If the form has no action**, the value of action is the empty string (`" "`)



Web Design

Forms



- The **method attribute of <form> specifies** one of the two possible techniques of
- transferring the form data to the server, **get and post**
- **method="post"** This method sends the form data to the server in the body of the HTTP request.
- **method="get"** form data is visible in the URL itself as query parameters.



Web Design

Forms

Common controls are created with the `<input>` tag

The `type` attribute of `<input>` specifies the kind of widget being created

```
<input type = "text" name = "Phone" size = "12" >
```

1. Text

- Creates a **horizontal box** for text input
- Often default size is 20; it can be changed with the size attribute
- If more characters are entered than will fit, **the box is scrolled (shifted) left**
- If you don't want to allow the user to type more characters than will fit, **set `maxlength`, which causes excess input to be ignored.**



Web Design Forms



```
<form action="https://pes.edu/">
```

```
Name: <input type="text" name="name"><br><br>
```

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

```
</form>
```

Name:

Submit

Creates a **single-line text field** where the user can type.

Name : Normal text that will appear before the input box (like a label).

type="text" → specifies it's a text input.

name="name" → gives it a name, so when the form is submitted, the server will receive the value under the key name.



2. *Checkboxes* - to collect multiple choice input

- Every checkbox requires a **value attribute**, which is the widget's value in the form data when the checkbox is 'checked'
- A checkbox that is not 'checked' contributes **no value to the form data**
- By default, **no checkbox is initially 'checked'**
- **To initialize a checkbox to 'checked', the checked attribute must be set to "checked"**



Web Design

Forms

Example:

Grocery Checklist

```
<form action = "">
```

```
<p>
```

```
<input type = "checkbox" name = "groceries" value = "milk" checked =  
"checked"> Milk
```

```
<input type = "checkbox" name = "groceries" value = "bread"> Bread
```

```
<input type = "checkbox" name = "groceries" value= "eggs"> Eggs
```

```
</p>
```

```
</form>
```



Grocery Checklist

☒ Milk ☐ Bread ☐ Eggs



3) **Radio Buttons** - collections of checkboxes **in which only one button can be 'checked' at a time**

Every button in a radio button group **MUST** have the same name

- If no button in a radio button group is 'pressed', the browser often 'presses' the first one
- **Radio Buttons:** All radio buttons have the **same name attribute (age)**, which groups them together so that only one can be selected at a time .
- **value of the selected radio button with the same name attribute is sent to the server.**



Web Design

Forms



```
<form action = "">
```

```
<p>
```

```
<input type = "radio" name = "age" value = "under20" checked  
= "checked"> 0-19
```

```
<input type = "radio" name = "age" value = "20-35"> 20-35
```

```
<input type = "radio" name = "age" value = "36-50"> 36-50
```

```
<input type = "radio" name = "age" value = "over50"> Over 50
```

```
</p>
```

```
</form>
```

Age Category

☒ 0-19 ☐ 20-35 ☐ 36-50 ☐ Over 50



Web Design

Forms



- **type="radio"**: Specifies that the input is a radio button.
- **name="age"**: Groups this radio button with others that have the same name. Only one radio button with the same name can be selected at a time.
- **value="under20"**: Defines the value that will be submitted with the form if this radio button is selected.
- **checked="checked"**: Indicates that this radio button should be selected by default when the page loads



Web Design

Forms

4. Menus - created with `<select>` tags

There are two kinds of menus, those that behave like checkboxes and those that behave like radio buttons (the default).

- o Menus that behave like checkboxes are specified by including the multiple attribute, which must be set to "multiple".
- o The name attribute of `<select>` is required.
- o The size attribute of `<select>` can be included to specify the number of menu items to be displayed (the default is 1)



Web Design

Forms

- If size is set to > 1 or if **multiple** is specified, the menu is displayed as a pop-up menu.
- Each item of a menu is specified with an `<option>` tag
- An `<option>` tag can include the **selected** attribute, which when assigned "selected" specifies that the item is preselected.



Grocery Menu - milk, bread, eggs, cheese

With size = 1 (the default)

milk
bread
eggs
cheese



Web Design

Forms

Example:

Grocery Menu - milk, bread, eggs, cheese

```
<form action = ">
```

```
<p>
```

```
  With size = 1 (the default)
```

```
  <select name = "groceries">
```

```
    <option> milk </option>
```

```
    <option> bread </option>
```

```
    <option> eggs </option>
```

```
    <option> cheese </option>
```

```
  </select>
```

```
</p>
```

```
</form>
```



Web Design

Forms

After clicking the menu:

Grocery Menu - milk, bread, eggs, cheese

With size = 1 (the default)

milk
bread
eggs
cheese

Grocery Menu - milk, bread, eggs, cheese

With size = 1 (the default)

After changing size to 2:

Grocery Menu - milk, bread, eggs, cheese

With size = 2 (specified)
bread



5. Text areas - created with `<textarea>`

- o Usually include the `rows` and `cols` attributes to specify the size of the text area
- o Default text can be included as the content of `<textarea>`
- o Scrolling is implicit if the area is overfilled

Please provide your employment aspirations

```
<form action = "">    <p>
```

```
<textarea name = "aspirations"  rows = "3"  
cols = "40"> (Be brief and concise)
```

```
</textarea>
```

```
</p>
```

```
</form>
```

Please provide your employment aspirations

(Be brief and concise)



Web Design

Forms



Example

```
<form action = "handler" method="POST">
```

```
<p>
```

```
<textarea name = "aspirations" placeholder="Describe about you" maxlength = 100
```

```
rows = 4 cols = 30>
```

```
</textarea>
```

```
<p>
```

```
<input type="file" value="document">
```

```
<p>
```

```
<input type="submit" value="Continue"/>
```

```
</p>
```

```
</p>
```

```
</form>
```

Please provide your learning aspirations from this course

No file chosen



6. Reset and Submit buttons

- Both are created with `<input>`
- `<input type = "reset" value = "Reset Form">`
- `<input type = "submit" value = "Submit Form">`

•**Submit Button:** Sends form data to the server and processes it based on the action URL and HTTP method.

•**Reset Button:** Clears all input fields, reverting them to their default values.



Web Design

Forms



`<label>` tag in HTML is used to create a **label for form elements** (like textboxes, checkboxes, radio buttons, etc.).

- Makes forms more **accessible** (especially for screen readers).
- If you click the label text, it automatically **focuses** or **selects** the related input box.

The **for attribute in the `<label>` tag** should match the **id of the form control** it is associated with.

- `<label for="password">Password:</label>`
- `<input type="password" id="password" name="password">`
- The **id attribute** in HTML is a **unique identifier** for an element



Web Design

Forms



```
<form>
```

```
<label for="username">Name:</label>
```

```
<input type="text" id="username" name="username"><br><br>
```

```
<label for="email">Email:</label>
```

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

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

```
</form>
```

Name:

Email:

Submit



Web Design

Forms

Text Input Types:

text: A single-line text field for user input.

Password:

email: A field for entering an email address. Validates that the input conforms to the email format.

Checkbox:

Radio:

Select:

file: A field for selecting files from the user's file system.

submit: A button to submit the form.

reset: A button to reset all form fields to their default values.



Web Design

Forms



A Sample HTML Form

User Id:

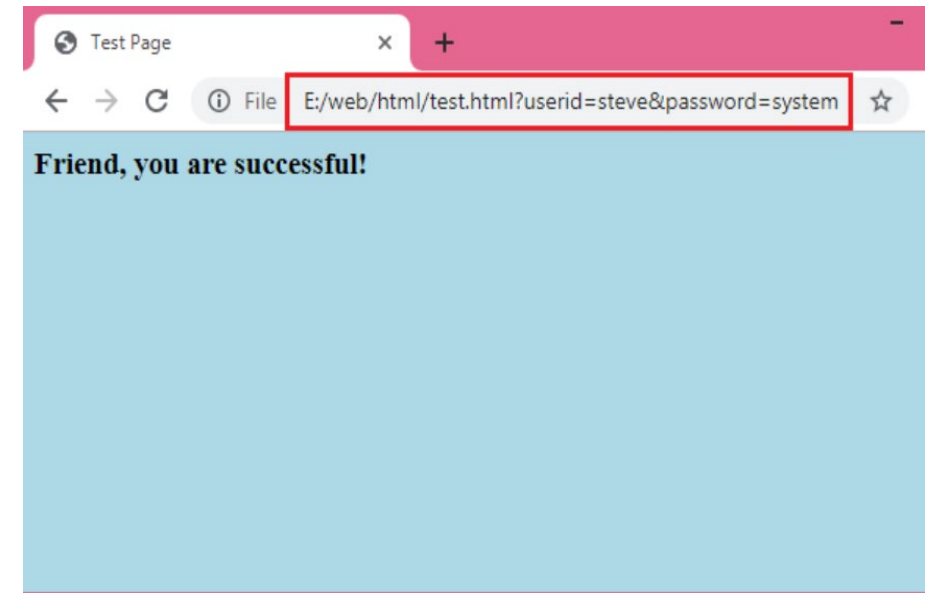
Password:

- ☒ Add me to your contact list.
☒ Add me to your mailing list.

Contact me by:

☐ Email ☐ Postal mail ☒ Both

By clicking on the "Submit" button, the form data will be sent to a page named "test.html".





Web Design

Forms

- The `<fieldset>` tag is used **inside a `<form>`** to **group related form controls** (like textboxes, radio buttons, checkboxes) into a section.
- It often comes with a **border** around the grouped controls.
- It improves **form readability** and **accessibility**.
- The `<legend>` tag is used inside `<fieldset>` to give a **title or caption** to that group.
- It appears at the top of the border (like a heading for that section).



Web Design

Forms



Personal Information

Name:

Email:

Preferences

Gender: ☐ Male ☐ Female

Hobbies: ☐ Reading ☐ Sports

Submit



THANK YOU

Rajani S

Department of Computer Applications

rajanis@pes.edu