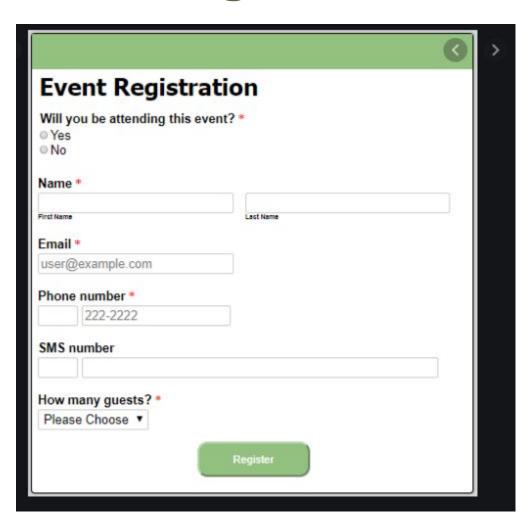
1	Registration Form
Name	
Father's Nam	e
Email Id	
DOB	dd/mm/yyyy 🗀
Gender	Male O Female O
Area of Intere	est Java 🗸
Hobbies	Music Dance Books
	Login Cancel

FORMS

Introduction

- HTML forms are used to collect user input in a web page
- A form is collection of form fields
- Form fields are elements that allows the visitor to provide information in different ways like text boxes, drop-down menus or radio buttons, check boxes, etc...
- When the visitor clicks a submit button, the content of the form is usually sent to a program that runs on the server

Sample Example of Form in event registration Page



PHP/ASP/CGI/Python SCRIPTS

- When a form is submitted, a program is needed in web server that can receive the information, process it and respond to user.
- Such programs are sometimes referred as Server side scripts
- Server side scripting language examples
 - **✓ PHP (Hypertext Preprocessor)**
 - **✓** ASP (Active Server Pages)
 - **PYTHON**
- **✓ CGI (Common Gateway Interface)**

<form> Element

- □ **<form>** element defines a HTML form
- □ When a form is submitted, all fields on the form are sent
- <form> tag tells the browser where the form starts and ends.
- can add all kinds of HTML tags between the <form> and </form> tags
- Example:

```
<form>
..... Form elements
</form>
```

Form Tag Attributes

☐ Form tag Attributes

```
action="address"
method="post" or method="get"
```

- The address is the url of the script the content should be sent to.
- The post and get methods are simply two different methods for submitting data to the script.

HTML FORM attributes

- <action>
 - defines the action to be performed when the form is submitted.
 - If the action attribute is omitted, the action is set to the current page.
- <target>
 - open in a new browser tab, a frame, or in the current window
 - form target="_self", "_blank", "_top", "_parent"
- <method>
 - HTTP methods
 - Get --- used while submitting the form with non sensitive data
 - Post --- used while submitting the form with sensitive data

HTML Form Attributes

GET Method

- the submitted form data will be visible in the page address field (eg.: /action_page.php?firstname=Mickey
- Appends form-data into the URL in name/value pairs
- The length of a URL is limited (about 3000 characters)
- Never use GET to send sensitive data! (will be visible in the URL)
- Useful for form submissions where a user wants to bookmark the result
- GET is better for non-secure data

POST method

- the submitted form data will not be visible in the page address field
- Send as separate query string
- POST has no size limitations
- can be used to send large amounts of data
- Form submissions with POST cannot be bookmarked
- POST is better for secure data

Different ways of reading Input from user using form tags

- Text field
- Password field
- Hidden field
- Text area
- Check box
- Radio button
- Drop-down menu
- Submit button
- Reset button
- Image button
- Etc...

Input Types

- <input type="button">
- <input type="checkbox">
- <input type="color">
- <input type="date">
- <input type="email">
- <input type="number">
- <input type="password">
- <input type="radio">
- <input type="file">
- <input type="hidden">
- <input type="image">

- <input type="month">
- <input type="range">
- <input type="reset">
- <input type="search">
- <input type="submit">
- <input type="tel">
- <input type="text">
- <input type="time">
- <input type="url">
- <input type="week">
- <input type="datetime-local">

Form Elements

- **Input Element**
 - <input> element can be displayed in several ways, depending on the type attribute
- <textarea> element defines a multi-line input
- <button> element defines a clickable button
- <fieldset> element is used to group related data in a form.
- <legend> element defines a caption for the <fieldset> element.

<input> Element - text

- The <input> element has many variations, depending on the type attribute
- Input Type =Text

```
<form action="" >
  First name: (br)
 <input type="text" id="fname" name="fname"><br>
 Last name: <br>
  <input type="text" id="lname" name="lname"><br><br><br>
 <input type="submit" value="Submit">
</form>
```

Last name:	

Input type = "text"

• Text fields allow the user to input text

SETTINGS:

Below is a listing of valid settings for text fields:

HTML	EXPLANATION	EXAMPLE
text size= maxlength= name= value= align= tabindex=	One line text field Characters shown. Max characters allowed. Name of the field. Initial value in the field. Alignment of the field. Tab order of the field.	

PASSWORD FIELD

- Password fields are similar to text fields
- Password fields contents are displayed as dots on the screen.
- □ To prevent others from reading the password on the screen.

```
Password: <br > <input type="password" id="pwd" name="pwd"> <br > <br > <br > <br >
```

```
Password:
```

Input Type="password"

SETTINGS:

Below is a listing of valid settings for password fields:

HTML	EXPLANATION	EXAMPLE
password size= maxlength= name= value= align= tabindex=	One line password field Characters shown. Max characters allowed. Name of the field. Initial value in the field. Alignment of the field. Tab order of the field.	

CHECKBOX

 Check boxes are used to select one or more options from a set of alternatives

HTML Forms <!DOCTYPE html> <html> -Hobbies-<body> Choose your Hobbies: Painting <h2>HTML Forms</h2> ☐ Sketching <form action="" method="post"> Listening to Music <fieldset> Click Me <legend> Hobbies </legend> <label> Choose your Hobbies: </label>
 <input type="checkbox" id= "paint" name="paint" value=""> <label >Painting</label>
 <input type="checkbox" id= "sketch" name="sketch" value=""> <label >Sketching</label>
 <input type="checkbox" id= "music" name="music" value=""> <label >Listening to Music</label>
 <input type="submit" value="Click Me" > </fieldset> </form> </body> </html>

Input type= "checkbox"

SETTINGS:

Below is a listing of valid settings for check boxes:

HTML	EXPLANATION	EXAMPLE
checkbox name= value= align= tabindex= checked	Choose one or more options Name of the field. Value that is submitted if checked. Alignment of the field. Tab order of the field. Default check this field.	

RADIO BUTTON

 Radio buttons allows user select ONLY ONE of a limited number of choices or just one - option from a set of alternatives.

HTML Forms <!DOCTYPE html> Gender <html> Choose Gender: <body> Male Female <h2>HTML Forms</h2> O Others Click Me <form action="" method="post"> <fieldset> <legend> Gender </legend> <label> Choose Gender: </label>
 <input type="radio" id= "male" name="gen" value=""> <label >Male</label>
 <input type="radio" id= "female" name="gen" value=""> <label >Female</label>
 <input type="radio" id= "others" name="gen" value=""> <label >Others</label>
 <input type="submit" value="Click Me" > </fieldset> </form> </body> </html>

Input type = "radiobutton"

SETTINGS:

Below is a listing of valid settings for radio buttons:

HTML	EXPLANATION	EXAMPLE
radio name= value= align= tabindex= checked	Choose one - and only one - option Name of the group. Value that is submitted if checked. Alignment of the field. Tab order of the field. Default check this field.	© © ©

TEXT AREA

- Text areas are text fields that can read multi line text
- Unlike most other form fields, text areas are not defined with an
 <input> tag
- <textarea> tag where text area to start
- </textarea> tag where text area end
- Everything written between these tags will be presented in the text area box

TEXT AREA

SETTINGS:

Below is a listing of valid settings for text areas:

HTML	EXPLANATION	EXAMPLE
textarea rows= cols= name= tabindex=	Text area - several lines Rows in the field. Columns in the field. Name of the field. Tab order of the field.	
wrap= off virtual physical	Turns off linebreaking Shows linebreaking, but sends text as entered. Inserts linebreaks when needed and even sends it.	

Textarea example

```
The cat was playing in the garden.
```

Submit

DROP DOWN MENU

- Drop-down menus are probably the most flexible objects you can add to your forms
- Depending on your settings, drop-down menus can serve the same purpose as radio buttons (one selection only) or check boxes (multiple selections allowed)
- The advantage of a drop-down menu, compared to radio buttons or check boxes, is that it takes up less space

Drop Down Menu

SETTINGS:

Below is a listing of valid settings for drop-down menus:

HTML	EXPLANATION	EXAMPLE
select name= size= multiple=	Drop-down menu Name of the field. Visible items in list. Allows multiple choices if yes.	Butter ▼
option selected value=	Individual items in the menu. Default select the item. Value to send if selected.	

DROP DOWN MENU

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form action="" method="post" >
<label for="city">Choose a city:</label><br/>
<select name="city" size="3" multiple>
<option>Erode</option>
<option>Trichy</option>
<option>Tanjavur</option>
<option selected>Madurai</option>
</select>
</form>
</body>
</html>
```

HTML Forms

Choose a city:

Erode Trichy Tanjavur Madurai +

HTML FORMS-<datalist>

specifies a list of pre-defined options for an <input> element.

```
<!DOCTYPE html>
<html>
<body>
<h2>The datalist Element</h2>
The datalist element specifies a list of pre-defined options for an input
element.
                                                        The datalist Element
<form action="">
  <input list="programs" name="program">
                                                        The datalist element specifies a list of pre-defined options for an input element.
  <datalist id="programs">
                                                                          ▼ Submit
    <option value="C">
    <option value="C++">
                                                         C
    <option value="Java">
                                                         C++
    <option value="Python">
    <option value="PHP">
                                                         Java
  </datalist>
                                                         Python
  <input type="submit">
</form>
                                                         PHP
</body>
</html>
```

SUBMIT BUTTON

• When a visitor clicks a submit button, the form data is sent to the address specified in the action setting of the <form> tag.

SETTINGS:

Below is a listing of valid settings for submit buttons:

HTML	EXPLANATION	EXAMPLE
submit name= value= align= tabindex=	Submit button Name of the button. Text written on the button. Alignment of the button. Tab order of the button.	Hit Me!

Submit button

- O Male
- FeMale
- O other

Submit

<fieldset> and <legend> Elements

</html>

- <fieldset>--- used to group related data in a form
- <legend>--- defines a caption for the <fieldset> element

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Forms</h2>
<form action="" method="post">
<fieldset>
<legend> Hobbies </legend>
                                                                    HTML Forms
  <label> Choose your Hobbies: </label> <br>
  <input type="checkbox" id= "paint" name="paint" value="">
                                                                     -Hobbies-
   <label >Painting</label><br>
                                                                     Choose your Hobbies:
  <input type="checkbox" id= "sketch" name="sketch" value="">
                                                                      Painting
  <label >Sketching</label><br>
                                                                      ☐ Sketching
  <input type="checkbox" id= "music" name="music" value="">
                                                                      Listening to Music
  <label >Listening to Music</label><br>
                                                                      Click Me
  <input type="submit" value="Click Me" >
</fieldset>
</form>
</body>
```

More Input Types

- <input type="number">
- <input type="button">
- <input type="color">
- <input type="range">
- <input type="file">
- <input type="email">
- <input type="url">
- <input type="hidden">
- <input type="image">

- <input type="reset">
- <input type="search">
- <input type="date">
- <input type="month">
- <input type="time">
- <input type="week">
- <input type="datetime-local">

Input type

- <input type="number">
- <input type="button">
- <input type="color">
- <input type="range">
- <input type="file">

Form Examples

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Forms</h2>
<form action="">
  <label for="Phonenum">First name:</label> <br><br>
  <input type="number" id="Phonenum" name="Phonenum" value=""> <br><br></pr>
  Enter Age(1 to 18):
  <input type="number" id="age" name="age" value="" min="1" max="18"> <br>
(br>
   Volume:
  <input type="range" id="volume" name="volume" value="" min="0" max="50">
<br><br><br>>
  Choose color:
  <input type="color" id="color" name="color" value="" min="0" max="50">
<br><br><br>>
  Choose file:
  <input type="file" id="f" name="f" value="" min="0" max="50"> <br><br>
  <input type="button" value="Click Me!">
</form>
</body>
```

HTML Forms

First name:

This name.	
Enter Age(1 to 18):	
Volume:	
Choose color:	
Choose file: Choose File No file chose	n
Click Mol	

Input type

- <input type="email">
- <input type="reset">-
- <input type="image">

Forms example

HTML Forms

т . 1	Ci. i	7
Link:	dad	

Examples

HTML Forms

Search Here:



Input type

- <input type="date">
- <input type="month">
- <input type="time">
- <input type="week">
- <input type="datetime-local">

Forms Examples

</body>

```
<html>
<body>
<h2>HTML Forms</h2>
                                                                             HTML Forms
<form action="">
  Date:
 <input type="date" id="dat" name="dat" value="" > <br><br>
                                                                             Date: dd/mm/yyyy
 Date before 20 century:
 <input type="date" id="dat" name="dat" value="" max="2000-12-31"> <br>
 Date before 20 century: dd/mm/yyyy
  Month:
                                                                                                         Month:
 <input type="month" id="mo" name="mo" value="" > <br><br></pr>
                                                                             Week: Week --, ----
                                                                                                      Week:
 <input type="week" id="we" name="we" value="" > <br><br>
                                                                             Time: --:-- O
  Time:
 <input type="time" id="ti" name="ti" value="" > <br><br></pr>
                                                                              Click Me!
 <input type="button" value="Click Me!">
</form>
```

Attributes of Input Element

Attribute	Description	
checked	Specifies that an input field should be pre-selected when the page loads (for type="checkbox" or type="radio")	
disabled	Specifies that an input field should be disabled	
max	Specifies the maximum value for an input field	
maxlength	Specifies the maxim must be of Clarac er for an improve	
min	Specifies the minimum value for an input field	
pattern	Specifies a regular expression to check the input value against	
readonly	Specifies that an input field is read only (cannot be changed)	
required	Specifies that an input field is required (must be filled out)	
size	Specifies the width (in characters) of an input field	
step	Specifies the legal number intervals for an input field	
value	Specifies the default value for an input field	

Attributes - Example



Placeholder

To display the default value as gray color in form feild

□ Size

Maximum letters to be visible

Maxlength

Maximum acceptable length

■ min and max

Specifies minimum and maximum value of input field

pattern

Specifies regular expression to check the input values

• Checked:

Specifies input field should be pre selected

required

Used to make a field mandatory

Disabled

To disable a particular form elements

Readonly

Specifies input field is read only

Multiple

Specifies more than one selection on input type

Autofocus

Element automatically get focus when page loads

Autocomplete

Specifies auto complete field on or off

Attributes of Input Element-Examples

```
<body>
<h1>The select multiple attribute</h1>
The multiple attribute specifies that multiple options can be selected at
once:
<form action="/action page.php">
 <label for="fr">Choose a fruit:</label>
 <select name="fr" id="fr" multiple>
   <option value="Apple">Apple</option>
   <option value="Orange" selected>Orange</option>
   <option value="Banana">Banana
   <option value="Jackfruit">Jack fruit</option>
 </select>
 (br)(br)
 <input type="submit" value="Submit">
</form>
Kp>Hold down the Ctrl (windows) or Command (Mac) button to select multiple
options.
```

The select multiple attribute

The multiple attribute specifies that multiple options can be selected at once:



Submit

Hold down the Ctrl (windows) or Command (Mac) button to select multiple options.

Attributes of Input Element-

- Multiple
- Placeholder
- Pattern

Attributes of Input Element-Examples



- Required- to indicate mandatory field
- $\hfill \triangle Autofocus$ the element should automatically get focus when the page loads
- Autocomplete- specifies whether a form or an input field should have autocomplete on or off
- tabindex -tabindex attribute specifies the tab order of an element

Attribute- autofocus -example

```
<!DOCTYPE html>
<html>
                                                                                  HTML Forms
<body>
<h2>HTML Forms</h2>
                                                                                 Name:
<form action="">
                                                                                 Age:
   Name:
   <input type="text" id="nam" name="nam" value="" autofocus autocomplete="on" >
                                                                                   Click Me!
   (br)(br)
   Age:
 <input type="number" id="age" name="age" value="" required> <br><br></pr>
  <input type="submit" value="Click Me!">
</form>
</body>
</html>
```

Attribute- tabindex -example

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Forms</h2>
<form action="">
   Name:
   <input type="text" id="nam" name="nam" value="" autofocus autocomplete="on"</pre>
tabindex="1">
                   Age:
  <input type="number" id="age" name="age" value="" required tabindex="3"> <br><br>
 Email:
 <input type="email" id="age" name="age" value="" tabindex="2"> <br><br></pr>
 <input type="submit" value="Click Me!">
</form>
</body>
</html>
```

HTML Form	ns
Name:	
Age:	‡
Email:	
Click Me!	

Thank you