# WEB DEVELOPMENT

## Lecture 06 Forms

# Scope

- XHTML Forms
- Form Elements
- Get and Post
- Input Controls
- Acessibility Features
- Form Layout

### XHTML Forms

Forms are used to collect data from the user.

They make use of controls, such as buttons, text fields, radio buttons and drop-down lists.

They cannot process the data. This is beyond the scope of XHTML.

This is usually done on the server by programs written in PHP, or ASP, or some other language.

#### Form elements

<form> Sets up the form

<input> Creates an input control

<button> Creates a generic button

<textarea> Multiline text entry control

<select> Drop-down list control

<option> A single entry within a select control

<optgroup> Defines a group of options

<label> Attaches information to controls

<fieldset> Groups related controls

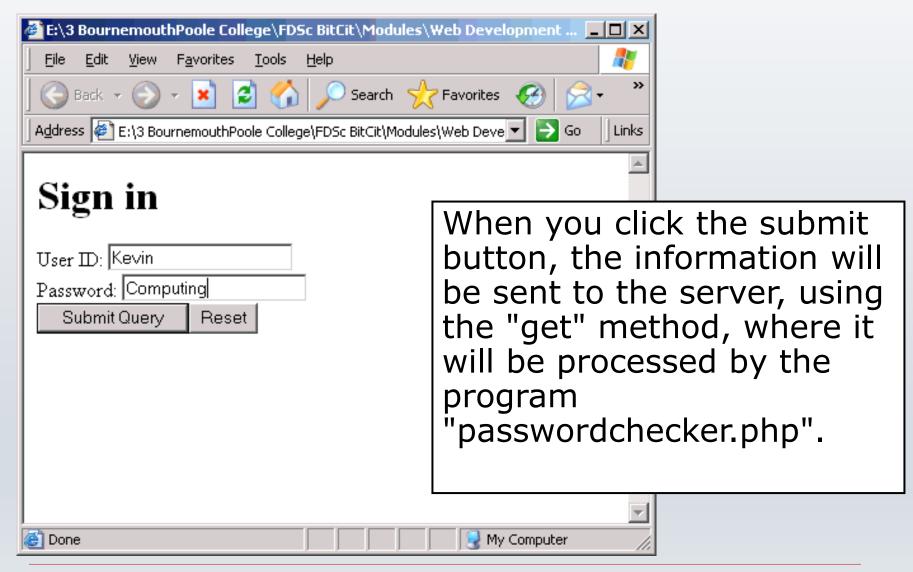
<legend> Assigns a caption to a fieldset

## Simple Example

```
<body>
<h1>Sign in</h1>
<form action="passwordchecker.php" method="get">
User ID: <input type="text" name="login" /><br />
Password: <input type="text" name="pass" /><br />
<input type="submit" value="Submit Query" />
<input type="reset" />
</form>
</body>
```

will create a simple form with two text fields, and two pre-defined buttons.

# A simple form



### <form> element

#### Has two main attributes:

action

The url of the program to which the data should be sent. Default location is the webserver being used.

method

One of the two methods for transmitting the data to the server. Either "get" or "post".

# Difference between get and post

#### get

will transmit the data as part of the URL to the server.

www.server.com/passwordchecker.php?login=Kevin&pass=Computing

#### post

will transmit the data separately from the URL. It cannot be seen and can even be encrypted.

The second method is better from a security point of view.

## <input> Form Controls

text Single line text box

password Text box which displays asterisks

checkbox A tickbox

radio A set of circular tickboxes – one choice

submit A button which will transmit data

reset A button which will clear the form

file Allows you to send a file to the server

image Allows you to use an image as a button

button A generic button which can be used by a scripting

language

# <input type="password">

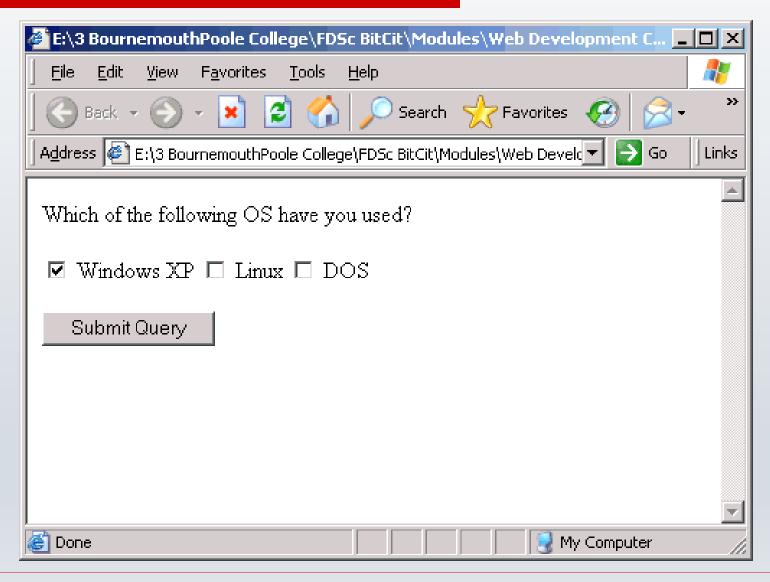
Shares with input type="text" a number of useful attributes

You can specify the size of the field, the maximum allowed length of the text and some default text.

The only difference is that the text typed in will be displayed as a set of asterisks, for security reasons.

# <input type="checkbox">

### which will show



## and this will be sent to the server

http://..../formhandler.php?os=WinXP

if two of the checkboxes are checked, this would be sent:

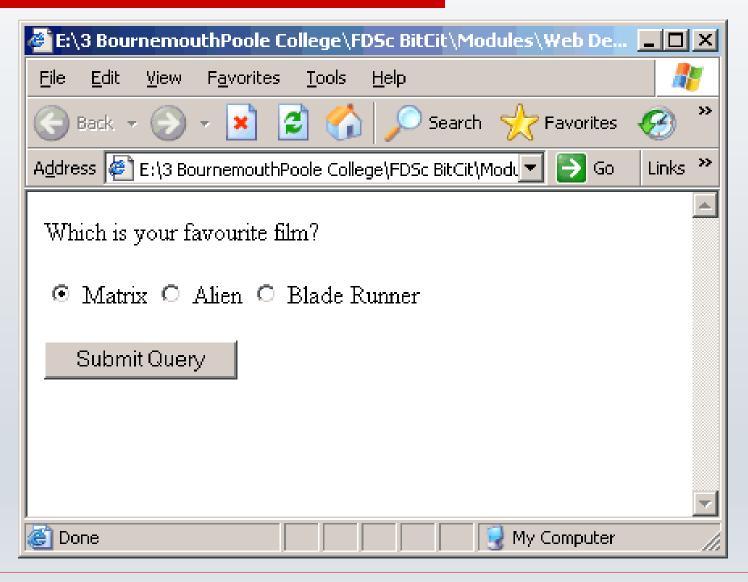
http://.../formhandler.php?os=WinXP&os=DOS

# <input type="radio">

#### Only one radio button can be chosen at a time

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# Will give this

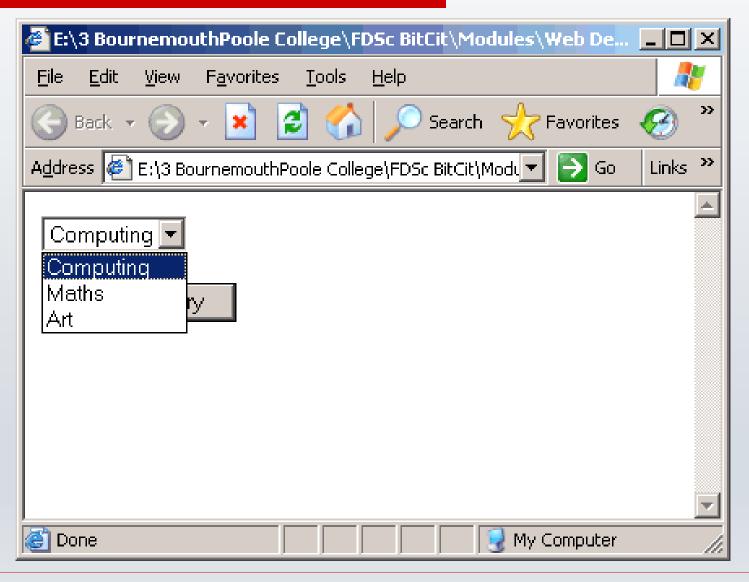


## <select> drop down lists

<form action="formhandler.php" method="get"> <select name="course"> <option>Computing</option> <option>Maths <option>Art</option> </select> <br /> <br /> <input type="submit" />

</form>

# Will give this



### More on <select>

Would send: course=computing to the server.

Normally, the list will be as long as it needs to be.

You can turn it into a scrolling list by adding the following attributes:

```
<select name="course" size="3" multiple="multiple">
```

This will add a scroll bar to the list.

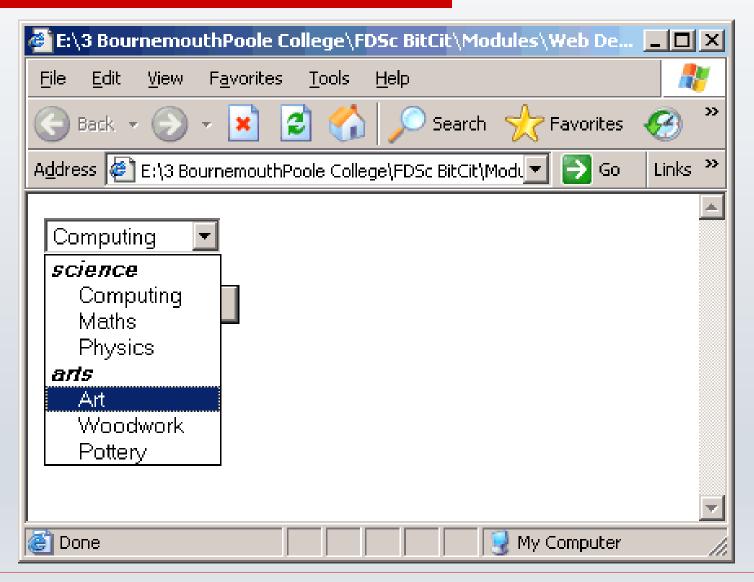
Also, you can change the default and the value sent to the server:

```
<option selected="selected">Matrix</option>
<option value="BR">Blade Runner</option>
```

## **Option Groups**

```
<select name="course">
 <optgroup label="science">
    <option>Computing</option>
   <option>Maths
    <option>Physics</option>
 </optgroup>
 <optgroup label="arts">
    <option>Art</option>
   <option>Woodwork</option>
   <option>Pottery</option>
 </optgroup>
</select>
```

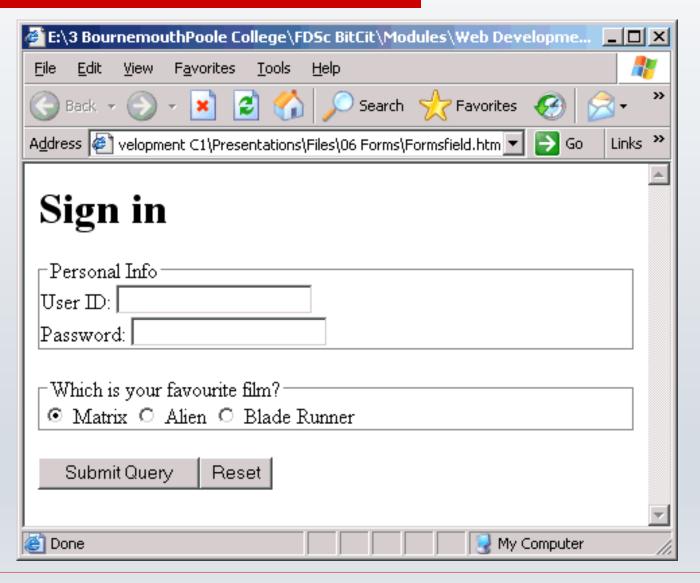
## will give this



## Grouping items together: <fieldset>

```
<form action="/phpfiles/passwordchecker.php" method="get">
<fieldset>
  <legend>Personal Info</legend>
  User ID: <input type="text" name="login" /><br />
  Password: <input type="text" name="Pass" /><br />
</fieldset>
<br />
<fieldset>
  <legend>Which is your favourite film?</legend>
  <input type="radio" name="favfilm" value="1"</pre>
                           checked="checked" /> Matrix
  <input type="radio" name="favfilm" value="2" /> Alien
  <input type="radio" name="favfilm" value="3" /> Blade Runner
</fieldset>
</form>
```

## will give this



# **Accessibility Features**

To use a form control, it must have be selected and active.

It must have focus.

This is usually done by pointing and clicking.

There should be other ways of changing focus.

## accesskey

```
<input type="text" name="address" accesskey="2">
```

will enable you to select that text box by typing Alt-2. You can also use it on other elements.



### tabindex

Another way of changing focus is to use the tab key.

If you want to change the default tab order, you can use the tabindex attribute.

```
User ID: <input type="text" name="login" tabindex="3"/>
Password: <input type="text" name="Pass" tabindex="2" />
Postcode: <input type="text" name="Postcode" tabindex="1"/>
```

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## Form Layout

The traditional way of laying out forms, is to place the input elements inside a table.

```
<body>
<h1>Sign in</h1>
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 User ID: <input type="text" name="login" />
 Passwd: <input type="password" name="pass" />
 <input type="submit" value="Submit Query" />
  <input type="reset" />
 </form>
</body>
```

# will give this



You would normally set border to 0 so that all you see is the form elements.

It is also possible to use CSS to arrange the elements in a tidy way on the page.