



IE 4727 Web Application Design



Table and Form

Lecturer: Dr. Hu Xiao

Email: xiao.hu@ntu.edu.sg

Tel: 67904543



Table & Form

- 1 **Objective**
- 2 **HTML table tags**
- 3 Form elements
- 4 Validate forms
- 5 Summary

Objectives



- Configure a basic table with the table, table row, table header, and table cell elements.
- Configure table sections with the thead, tbody, and tfoot elements.
- Create forms on web pages using the form, input, textarea, and select elements.
- Associate form controls and groups using label, fieldset, and legend elements.
- Understand the fundamental concepts of form validation.
- Style an HTML table with CSS.

HTML Table Elements



- Composed of rows and columns – similar to a spreadsheet.
 - `<table>` Element
Contains the table
 - `<tr>` Element
Contains a table row
 - `<td>` Element
Contains a table data cell
 - `<th>` Element
Contains a table header cell
 - `<caption>` Element
Configures a description of the table

Exercise TAB01



- Start with an HTML template, then type the following codes:
- Save it as **"TAB01.html"** and study the output in different browsers.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>Practice with Tables</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <table border="1">
9   <caption> Birthday List </caption>
10  <tr>
11    <td>Name</td>
12    <td>Birthday</td>
13  </tr>
14  <tr>
15    <td>James</td>
16    <td>11/08</td>
17  </tr>
18  <tr>
19    <td>Karen</td>
20    <td>4/17</td>
21  </tr>
22  <tr>
23    <td>Sparky</td>
24    <td>11/28</td>
25  </tr>
26 </table>
27 </body>
28 </html>
```

Birthday List

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

Exercise TAB02



- Based on the previous exercise, change the following line to make the first row bold as shown using **<th>**:
- Save it as “**TAB02.html**” and study the output in different browsers.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>Practice with Tables</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <table border="1">
9     <caption> Birthday List </caption>
10    <tr>
11        <th>Name</th>
12        <th>Birthday</th>
13    </tr>
14    <tr>
15        <td>James</td>
16        <td>11/08</td>
17    </tr>
18    <tr>
19        <td>Karen</td>
20        <td>4/17</td>
21    </tr>
22    <tr>
23        <td>Sparky</td>
24        <td>11/28</td>
25    </tr>
26 </table>
27 </body>
28 </html>
```

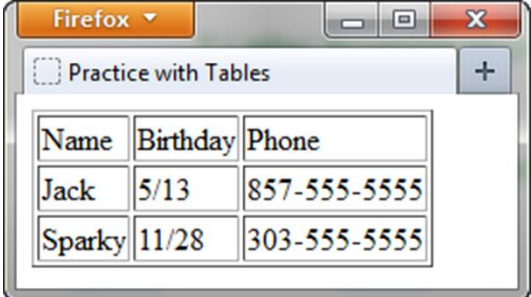
Birthday List

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

HTML border Attribute

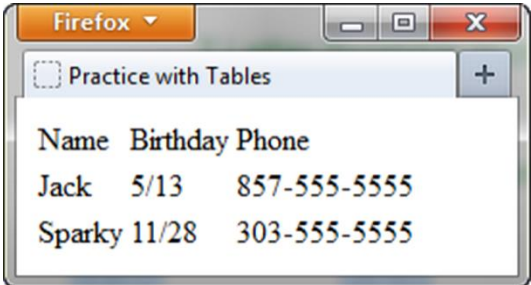


- Indicates the table is specifically not used for page layout
 - Optional
 - **border="1"**
Visible browser default border
 - **border="0"**
No visible browser default border.



A screenshot of a Firefox browser window titled "Practice with Tables". Inside the window, there is a table with three columns: "Name", "Birthday", and "Phone". The table has a visible border around it and its cells.

Name	Birthday	Phone
Jack	5/13	857-555-5555
Sparky	11/28	303-555-5555



A screenshot of a Firefox browser window titled "Practice with Tables". Inside the window, the same table as in the previous image is displayed, but without any visible borders around the table or its cells.

Name	Birthday	Phone
Jack	5/13	857-555-5555
Sparky	11/28	303-555-5555

HTML colspan Attribute



- Specifies the **number of column** that a cell will occupy, e.g. 2 columns in the following example

```
<table border="1">
<tr>
  <td colspan="2"> Birthday List</td>
</tr>
<tr>
  <td>James</td>
  <td>11/08</td>
</tr>
<tr>
  <td>Karen</td>
  <td>4/17</td>
</tr>
</table>
```

Birthday List	
James	11/08
Karen	4/17

HTML rowspan Attribute



- Specifies the **number of rows** that a cell will occupy, e.g. 2 rows in the following example:

```
<table border="1">
```

```
<tr>
```

```
<td rowspan="2">This spans two rows</td>
```

```
<td>Row 1 Column 2</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Row 2 Column 2</td>
```

```
</tr>
```

```
</table>
```

This spans two rows	Row 1 Column 2
Row 2 Column 2	

Table Row Groups



```
1 <table>
2   <thead>
3     <tr>
4       <th id="day">Day</th>
5       <th id="hours">Hours</th>
6     </tr>
7   </thead>
8   <tbody> <tr>
9     <td headers="day">Monday</td>
10    <td headers="hours">4</td>
11  </tr> <tr>
12    <td headers="day">Tuesday</td>
13    <td headers="hours">3</td>
14  </tr> </tbody>
15  <tfoot> <tr>
16    <td headers="day">Total</td>
17    <td headers="hours">7</td>
18  </tr> </tfoot>
19 </table>
```

- **<thead>**
table head rows
- **<tbody>**
table body rows
- **<tfoot>**
table footer rows

Work Schedule

Day	Hours
Monday	4
Tuesday	3
Total	7

Exercise TAB03



- Try out the attributes on previous 4 slides (border; colspan; rowspan; table row groups) by repeating the tables in the same html file.
- Save the file as “**TAB03.html**”.

Using CSS to Style a Table



HTML Attribute	CSS Property
align	Align a table: <code>table { width: 75%; margin: auto; }</code> Align within a table cell: <code>text-align</code>
bgcolor	background-color
cellpadding	padding
cellspacing	border-spacing or border-collapse
height	height
valign	vertical-align
width	width
border	border, border-style, or border-spacing
bg image	background-image
caption position	caption-side

Exercise TAB04



- Type the codes without the `<style> </style>`. Study the output in the browser.
- Then, add the codes for `<style></style>`. Study the output by refreshing the browser. Make some minor changes to the styles & observe their effects.
- Save it as “**TAB04.html**”

Lighthouse Island Bistro Specialty Coffee Menu

Specialty Coffee	Description	Price
Lite Latte	Indulge in a shot of organic, locally roasted espresso with steamed, skim milk.	\$3.50
Mocha Latte	Chocolate lovers will enjoy a shot of organic, locally roasted espresso, steamed milk, and your choice of melted dark, milk, or white chocolate.	\$4.00
MCP Latte	A luscious mocha latte with caramel and pecan syrup.	\$4.50

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>Table Practice</title>
5 <meta charset="utf-8">
6 <style>
7
8 table { margin: auto; border: 5px solid #000066; width: 600px; border-spacing: 0;}
9 td, th { padding: 5px; font-family: Arial, sans-serif; border-style: none;}
10 caption { font-family: Verdana, sans-serif; font-weight: bold;
11           font-size: 1.2em; padding-bottom: 5px; }
12 tr:nth-of-type(even) { background-color: #eaeaea; }
13 tr:first-of-type { background-color: #000066;
14                   color: #eaeaea; }
15 </style>
16 </head>
```

Exercise TAB04 (cont.)



```
17 <body>
18 <table border="1">
19 <caption>Lighthouse Island Bistro Specialty Coffee Menu</caption>
20 <tr>
21 <th>Specialty Coffee</th>
22 <th>Description</th>
23 <th>Price</th>
24 </tr>
25 <tr>
26 <td>Lite Latte</td>
27 <td>Indulge in a shot of organic, locally roasted espresso with steamed, skim milk. </td>
28 <td>$3.50</td>
29 </tr>
30 <tr>
31 <td>Mocha Latte</td>
32 <td>Chocolate lovers will enjoy a shot of organic, locally roasted espresso, steamed milk,
33 <td>and your choice of melted dark, milk, or white chocolate.</td>
34 <td>$4.00</td>
35 </tr>
36 <tr>
37 <td>MCP Latte</td>
38 <td>A luscious mocha latte with caramel and pecan syrup.</td>
39 <td>$4.50</td>
40 </tr>
41 </table>
42
43 </body>
44 </html>
```


Exercise TAB05



- Type the codes. Study the output in the browser.
- Make some minor changes to the styles & observe their effects.
- Save it as “TAB05.html”

Time Sheet

Day	Hours
Monday	4
Tuesday	3
Wednesday	5
Thursday	3
Friday	3
Total	18

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>Time Sheet</title>
5 <meta charset="utf-8">
6 <style>
7 table { width: 200px;
8 | | | margin: auto;
9 }
10 table, th, td { border-style: none; }
11 <caption { font-size: 2em;
12 | | | font-weight: bold;
13 }
14 thead {background-color: #eaeaea;
15 }
16 <tbody {font-family: Arial, sans-serif;
17 | | | font-size: .90em;
18 }
19 <tbody td { border-bottom: 1px #000033 dashed;
20 | | | padding-left: 25px;
21 }
22 <tfoot {background-color: #eaeaea;
23 | | | font-weight: bold;
24 | | | text-align: center;
25 }
26 }
27 </style>
28 </head>
```

Exercise TAB05 (cont.)



```
29 <body>
30 <table border="1">
31   <caption>Time Sheet</caption>
32   <thead>
33     <tr>
34       <th id="day">Day</th>
35       <th id="hours">Hours</th>
36     </tr>
37   </thead>
38   <tbody>
39     <tr>
40       <td headers="day">Monday</td>
41       <td headers="hours">4</td>
42     </tr>
43     <tr>
44       <td headers="day">Tuesday</td>
45       <td headers="hours">3</td>
46     </tr>
47     <tr>
48       <td headers="day">Wednesday</td>
49       <td headers="hours">5</td>
50     </tr>
51     <tr>
52       <td headers="day">Thursday</td>
53       <td headers="hours">3</td>
54     </tr>
55     <tr>
56       <td headers="day">Friday</td>
57       <td headers="hours">3</td>
58     </tr>
59   </tbody>
```

```
60   <tfoot>
61     <tr>
62       <td headers="day">Total</td>
63       <td headers="hours">18</td>
64     </tr>
65   </tfoot>
66 </table>
67 </body>
68 </html>
```

Overview of Forms



➤ Types of forms:

- Search form, Order form, Newsletter sign-up form, Survey form, Add to Cart form, and so on...

A screenshot of a search interface. At the top, there are several tabs: 'Web', 'Images', 'Video', 'Local', 'Shopping', and 'more' with a dropdown arrow. Below the tabs is a large text input field. To the right of the input field is a yellow button with the text 'Web Search'.

➤ Two Components of Using Forms

1. The web page form

An HTML element that contains and organizes form controls such as **text boxes**, **check boxes**, and **buttons** that can accept information from website visitors.

2. The server-side processing

Server-side processing works with the form data and **sends e-mail**, **writes to a text file**, **updates a database**, or performs some **other type of processing** on the server.

Server-Side Processing



- Your web browser requests web pages and their related files from a web server.
- The web server locates the files and sends them to your web browser.
- The web browser then renders the returned files and displays the requested web pages for you to use.

Server-Side Scripting



- One of many technologies in which a server-side script is **embedded** within a web page document saved with a file extension such as:
 - **.php** (PHP)
 - **.cfm** (Adobe ColdFusion)
 - **.js** (Node.js with Express.js)
 - **.aspx** (ASP.Net).
- Uses direct execution — the **script is run** either by the **web server** itself or by an extension module to the web server.

HTML Form Elements



- **<form>** tag
 - Contains the form elements on a web page
 - Container tag
- **<input>** tag
 - Configures a variety of form elements including text boxes, radio buttons, check boxes, and buttons
 - Stand alone tag
- **<textarea>** tag
 - Configures a scrolling text box
 - Container tag
- **<select>** tag
 - Configures a select box (drop down list)
 - Container tag
- **<option>** tag
 - Configures an option in the select box
 - Container tag

Syntax of a Form



```
<h1>Join Our Newsletter</h1>  
<form method="get" action="sign_up.php">  
E-mail: <input type="text" name="email" id="email" > <br><br>  
<input type="submit" value="Sign Me Up!"> <input type="reset">  
</form>
```

Next page

How to send form data?
get | post?

Where to send form
data?

The screenshot shows a Firefox browser window with a tab titled 'Form Example'. The page content is a form titled 'Join Our Newsletter'. It contains an 'E-mail:' label followed by a text input field. Below the input field are two buttons: 'Sign Me Up!' and 'Reset'.

The Form Element <form>



```
<form method="get" action="sign_up.php">
```

➤ The form element attributes:

- **action**
 - Specifies the **server-side program or script** that will process your form data
- **method**
 - **get** – default value, form data passed in URL
 - **post** – more secure, form data passed in HTTP Entity Body
- **Name**
 - Identifies the form
- **id**
 - Identifies the form

Syntax of Form Element: input



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

Attributes	Description
type (More details on next section)	Specify element type: text, checkbox, radio, submit, reset, file, hidden, image, button, default is text.
name	Specify name of element
value	Initial element value, when type is radio, must specify a value
size	Specify the width of a form element. When type is text or password, the element sizes are in characters, for other types, sizes are in pixel.
maxlength	When type is text or password, the maximum number of characters for input.
checked	When type is radio or checkbox, specify if the button is selected.



The input Element <input>: Text Box

- Accepts text information
- Common Attributes:
 - **type="text"**
 - name
 - id
 - size
 - maxlength
 - value
 - required (HTML5)
 - placeholder (HTML5)

Sample text Box

Name:

The input Element <input>: Password Box



- Accepts text information that needs to be **hidden** as it is entered

- Common Attributes:
 - **type="password"**
 - name
 - id
 - size
 - maxlength
 - value
 - **required (HTML5)**
 - **placeholder (HTML5)**

Sample Password Box

Password:

Sample Password Box

Password:

- You should use **method="post"**.



The Input Element `<input>`: Hidden Field

- This form control is **not displayed** on the Web page.
- Hidden form fields
 - Can be accessed by both client-side and server-side scripting
- Common Attributes:
 - `type="hidden"`
 - `name`
 - `id`
 - `Value`
- eg. `<input type="hidden" name="sendto" value="order@site.com">`

Hidden input

Submit it



The input Element <input>: Check box

- Allows the user to select **one or more** of a group of predetermined items

- Common Attributes:

- **type="checkbox"**
- name
- id
- checked
- Value

Sample Check Box

☐ Internet Explore

☒ Firefox

Submit

```
<h2>Slide 24a</h2>
<h3>checkbox</h3>
<form action="show_get" method="get">
  <input type="checkbox" name="browser" value="ie"> Internet Explore<br>
  <input type="checkbox" name="browser" value="moz" checked> Firefox<br>
  <input type="submit">
</form>
```

```
<h2>Slide 24b</h2>
<h3>checkbox multivalue</h3>
<form action="show_get" method="get">
  <input type="checkbox" name="browser[]" value="ie"> Internet Explore<br>
  <input type="checkbox" name="browser[]" value="moz" checked> Firefox<br>
  <input type="submit">
</form>
```

Array allows multiple choices



The input Element <input>: Radio Button

- Allows the user to select **exactly ONE** from a group of predetermined items
- Each radio button in a group is given the same name and a unique value
- Common Attributes:
 - **type="radio"**
 - name
 - id
 - checked
 - value

Sample Radio Buttons

☐ Internet Explore
☒ Firefox
☐ Opera



The Input Element `<input>`: Email Text Box

- Accepts text information in **e-mail address format**

- Common Attributes:

- **`type="email"`**
- `name`
- `id`
- `size`
- `maxlength`
- `value`
- `placeholder`
- `required`



```
<h1>Join Our Newsletter</h1>
<form method="get">
  <label for="email">E-mail:</label>
  <input type="email" name="email" id="email" ><br><br>
  <input type="submit" value="Sign Me Up!"> <input type="reset">
</form>
```

The Input Element `<input>`: Calendar Control



- `<label for="myDate">Choose a Date</label>`
`<input type="date" name="myDate" id="myDate">`

Form Example - Opera

Choose A Date

Choose a Date

Send Reset

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
48	26	27	28	29	30	1	2
49	3	4	5	6	7	8	9
50	10	11	12	13	14	15	16
51	17	18	19	20	21	22	23
52	24	25	26	27	28	29	30
1	31	1	2	3	4	5	6

Today None

The Input Element `<input>`: Time



➤ `<label for="mySartTime">Choose the Start Time</label>`
`<input type="time" name="myStarttime" id="myStartTimeID">

`
`<label for="myEndTime">Choose the End Time</label>`
`<input type="time" name="myEndTime" id="myEndTimeID">

`
`<input type="submit" value="Send"> <input type="reset">`

Choose Your Time

Choose the Start Time

Choose the End Time

Send

Reset

The Textarea Element <textarea>



- Configures a **scrolling text box**

```
<textarea name="comments" id="comments" rows="4" cols="40">
```

```
</textarea>
```

- Common Attributes:

- name
- id
- cols
- rows

Sample Scrolling Text Box

Enter your comments here

Submit

The Select Element <select>



- Configures a **select list** (along with <option> tags)
- Also known as: Select Box, Drop-Down List, Drop-Down Box, and Option Box.
- Allows the user to select one or more items from a list of predetermined choices.
- Common Attributes:
 - name
 - id
 - size
 - multiple

Sample Select List

select your favourite browser ▼ Submit



The Option Element <option>

- Configures the **options** in a Select List
- Attributes:
 - value
 - selected

Size="1"

```
<select size="4" name="favbrowser">  
<option> select your favourite browser </option>  
<option value="ie"> Internet Explorer </option>  
<option value="chrome"> Chrome </option>  
<option value="safari"> Safari </option>
```

Sample Select List

select your favourite browser ▼ Submit

Sample Select List - Showing all options

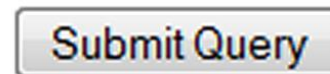
select your favourite browser ▲
Internet Explorer
Chrome
Safari Submit



The Input Element `<input>`: Submit Button

- Submits the form information
- When clicked:
 - Triggers the action method on the `<form>` tag
 - Sends the form data (the `name=value` pair for each form element) to the web server.
- Attributes:
 - `type="submit"`
 - `name`
 - `id`
 - `value`
- eg. `< input type = "submit" value="Submit Query">`

Sample Submit Button



The Input Element `<input>`: Reset Button



- Resets the form fields to their initial values

- Attributes:

- `type="reset"`
- `name`
- `id`
- `value`

- eg. `<input type = "reset" >`

Sample Reset Button



Reset

The Label Element <label>



- Associates a **text label** with a form control

- Two Different Formats:

<label>Email: <input type="text" name="CustEmail" id="CustEmail"></label>

Or

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

<input type="text" name="CustEmail" id= "email">

The Fieldset & Legend Elements



➤ The Fieldset Element

`<fieldset>`

- Container tag
- Creates a visual group of form controls on a web page

➤ The Legend Element

`<legend>`

- Container tag
- Creates a text label within the fieldset

Fieldset and Legend

Customer Information

Name:

Email:

```
<fieldset><legend>Customer Information</legend>
  <label>Name:   <input type="text" name="CName"  id="CName" size="30"></label> <br><br >
  <label>Email:  <input type="text" name="CEmail"  id="CEmail"></label>
</fieldset> <br><br>
```

Using CSS to style a Form



- Use a **table** to format the form but configure styles instead of HTML table attributes.

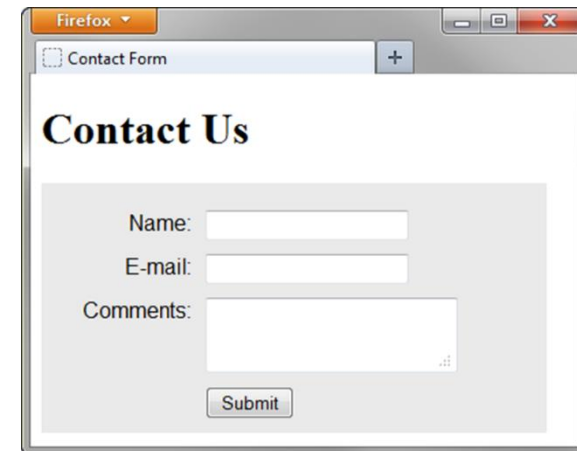
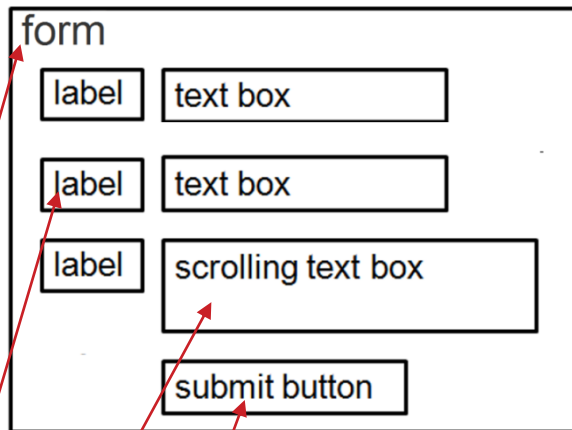
```
table { background-color: #eaeaea;  
        width: 20em;  
        font-family: Arial, sans-serif; }  
td { padding: 5px; }  
label { display: block;  
        text-align: right; }
```

The screenshot shows a Windows Internet Explorer window titled "Contact Form - Windows Internet Explorer". The address bar shows the local file path "C:\Users\DrMorris\". The Favorites bar includes "Contact Form". The page content features a heading "Contact Us" in a bold serif font. Below the heading is a light gray rectangular form area containing three labels with corresponding input fields: "Name:" with a text box, "E-mail:" with a text box, and "Comments:" with a text area. A "Submit" button is located at the bottom right of the form area.

Using CSS to style a Form



"Pure" CSS Approach : Do not use a table to format the form. Use CSS to configure the form elements. Add div selectors when needed.



```
form { background-color:#eaeaea; font-family: Arial, sans-serif;
       width: 350px; padding: 10px;}
label { float: left; clear: left; display: block; width: 100px;
       text-align: right; padding-right: 10px; margin-top: 10px; }
input, textarea { margin-top: 10px; display: block;}
#mySubmit { margin-left: 110px; }
```


Summary



Table & Form

- Table:
 - Create table: `<table>`, `<tr>`, `<td>`
 - rowspan & colspan
 - Structural elements: header, section
- Form:
 - Form element `<form>` attributes: action, method, name, id, etc.
 - Type of input element: text, password, checkbox, radio, textarea, select, option, submit button, reset button, calendar, time.
 - Advanced application: hidden field, readonly, label element, fieldset, legend element.
 - Basic form validation: placeholder, required.
- Using CSS to Style a Table and Form

Practice with HTML5 Forms



- The form display and functioning varies with browser support.
- Study examples in **Forms.zip**. Note that the action of the form is to invoke either *show_get.php* or *show_post.php* which displays in the browser the variables and values passed to the php scripts. This shows those variables passed from the client-side to the server-side.
- The *show_get.php* and *show_post.php* scripts show how you can debug your web applications when you need to know what has been sent from the client computer to the server.
- Try out all the form types, make changes and show the changes in your edited files.
- Copy the source codes of all the exercises for tables and all examples/exercises to **week04** folder for progress assessments.
- More about CSS3: <http://www.w3schools.com/>

Case Study (Part 2): HTML5 + CSS3+ Table & Form



- Copy all the files used in Case Study (Part 1) to a new folder named **CaseStudy_2**, under the **Week 04** web folder.
- Create a web page similar to the one below.
 - The header contains an image. The left column has four menu items. This page is the “Home Page”. You can use any image downloaded from a website, but you need to write a comment line in the source code to state where you get the image from.

Add pages:
-centered
-80%
-min width=800px




Case Study (Part 2): HTML5 + CSS3+ Table & Form



- When the menu item “Menu” is clicked, the following page will be shown.
- The actual content in the page is not important, but the **CSS styling is important**.
- You can choose to use similar fonts.

Table



The screenshot shows a web page for 'JavaJam Coffee House'. On the left is a vertical navigation menu with links: Home, Menu, Music, and Jobs. The main content area is titled 'Coffee at JavaJam' and contains a table of coffee items. A red arrow points from the word 'Table' to the coffee menu table.

JavaJam Coffee House							
Home Menu Music Jobs	Coffee at JavaJam <table><tr><td>Just Java</td><td>Regular house blend, decaffeinated coffee, or flavor of the day. Endless Cup \$2.00</td></tr><tr><td>Cafe au Lait</td><td>House blended coffee infused into a smooth, steamed milk. Single \$2.00 Double \$3.00</td></tr><tr><td>Iced Cappuccino</td><td>Sweetened espresso blended with icy-cold milk and served in a chilled glass. Single \$4.75 Double \$5.75</td></tr></table>	Just Java	Regular house blend, decaffeinated coffee, or flavor of the day. Endless Cup \$2.00	Cafe au Lait	House blended coffee infused into a smooth, steamed milk. Single \$2.00 Double \$3.00	Iced Cappuccino	Sweetened espresso blended with icy-cold milk and served in a chilled glass. Single \$4.75 Double \$5.75
Just Java	Regular house blend, decaffeinated coffee, or flavor of the day. Endless Cup \$2.00						
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Case Study (Part 2): HTML5 + CSS3+ Table & Form



- When the menu item “**Music**” is clicked, the following page will be shown.
- The actual content in the page is not important. **The embedded player is for playing MP3 music (or MP4 video).** You may use your own images.

Table



Case Study (Part 2): HTML5 + CSS3+ Table & Form



- When the menu item “**Jobs**” is clicked, the following page will be shown.
- The **CSS styling of the form is important**. The action of the form should invoke the `show_get.php` or `show_post.php`. Note that you must **visit this page through the web server**.

Form method
=post

The screenshot shows a web page for 'JavaJam Coffee House' with a navigation menu on the left containing 'Home', 'Menu', 'Music', and 'Jobs'. The 'Jobs' page is titled 'Jobs at JavaJam' and contains a form for job applications. The form includes fields for Name, E-mail, Start Date, and Experience, with a 'Clear' button and an 'Apply Now' button. The footer contains copyright information for 2014.

JavaJam Coffee House

Jobs at JavaJam

Want to work at JavaJam? Fill out the form below to start your application. Required fields are marked with an asterisk *

*Name:

*E-mail:

Start Date:

*Experience:

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yourfirstname@yourlastname.com



Thanks



Lecturer: Dr. Hu Xiao

Email: xiao.hu@ntu.edu.sg