**Pusat Pengajian Informatik dan Matematik Gunaan, Universiti Malaysia Terengganu (UMT)**

**Lab Manual Week 2**

**Web Programming**

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| **Semester:** | **3** |
| **Lab:** | **2** |
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# Instructions:

This lab manual is for use by students of the School of Informatics and Applied Mathematics, Universiti Malaysia Terengganu (UMT) only. Not allowed to print and distribute this manual without official permission of the author.

# Please follow the step by step as described in the manual. Tick ​​(√) each step has been created and write the conclusion of each activity has been completed. Conclusion of each activity must be written in a file named according to the following format:

# [nomatrik] \_ [LabX]. docx. Replace the 'X' with your lab session. Examples of correct file name is 'UK12345\_Lab2.docx'.

# Please prepare assignments with individual effort without any 'copy-paste' from other parties.

Best of luck!

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| **Objective:** | Using List in HTML. |
| **Description:** | List is used to display data in list form. Generally, there are three types of lists that are often used:  - Structured list (Ordered List): A list compiled by sequence  number.  - Unorganized List (Unordered List): A list not sorted and marked  with bullet.  - List Definition (Definition List): A list of items that have  a definition for each item is displayed. |

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| **Step-by-Step** | | **Finish? (√)** |
| Step 1: | Create a file named senarai.html. | / |
| Step 2: | Type the html code below into a new file that is created.  list.JPG | / |
| Step 3: | Save senarai.html file and click on the file to see the output. Note the difference in the three types of lists. | / |

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| **Conclusion:** |  | |
| **Objective:** | Applying HTML form and elements. |
| **Description:** | Form is used to send input from web documents to the server (server). Form contains input elements like text fields, checkboxes, radio-buttons, submit buttons and so on. In addition, a form can also contain other elements such as select lists, textarea, fieldset, legend and label.  <form> Tag is used to create the form. Among the important attributes for form is as follows:  - Name: Name of the form that is created. The name given  must be unique.  - Action: attribute this state to which the data will be sent after  the user presses the submit button. For example, if the  action attribute value given action = "calculate.jsp",  this means that each value is between  <form></ form> will be sent to the script calculate.jsp.  - Method: There are two types of methods that can be used,  POST and GET. The difference between the two  methods would be seen in the programming topics  involving php and jsp (server-side scripting). |

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| **Step-by-Step** | | **Finish? (√)** |
| Step 1: | Create a file called login.html. | / |
| Step 2: | login.html is a page that requires the user to enter a user name and password. However, the operation of the user authentication will not be performed at this time. Type the HTML code below into a new file is created.  form.JPG | / |
| Step 3: | Save login.html file and click on the file to see the output. Observe the input for the password. What did you find? | / |
| Step 4: | Apart from the input of type text or password, we can also use the other form elements such as radio buttons, checkboxes, dropdown list and textarea. Add the following HTML code into a form that was created in the previous step: | / |
| Step 5: | Save login.html file and click on the file to see the output. | / |

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| **Conclusion:** |  |

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| **Objective:** | Apply HTML frames. |
| **Description:** | HTML frames allow more than one web document displayed in the same browser window. However, the use of frames to be less popular at the present time based on the following factors:  - HTML frame is expected no longer supported by the web  browser in times to come.  - Use frame is quite difficult because web developers need to  keep track of which files are sometimes too much in one view  in a web browser window.  However, knowledge of HTML frames necessary for a website developer.  HTML tag for the frame consists of <frameset> and <frame>.  <frameset>: each frameset can contain one or more frame elements. In the frameset tag should also be stated how many rows or columns and pixel provided.  <frame>: defining a window (frame) of a web document. |

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| **Step-by-Step** | | | | **Finish? (√)** | |
| Step 1: | | Create a file named as rangka.html. | | / | |
| Step 2: | | Type the HTML code below into a new file that is created:  frame.JPG | | / | |
| Step 3: | | Save rangka.html and click on the file to see the results display. | | / | |
| Step 4: | | Frame can also be arranged according to specific rows and columns. Type the code below into the file rangka.html:  frame2.JPG | |  | |
| Step 5: | | Save the modified file and click on the file to see the results. | |  | |
| **Conclusion:** | |  | |

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| **Objective:** | Applying HTML Iframes. |
| **Description:** | If HTML frames allow more than one web document is displayed in a window of the same browser, HTML Iframes enables the display of a web document in a document posted on other websites.  Tags for <iframe> while iframe is attributte, which can be used are as follows:  src: link or the location of a web document to display in the  iframe.  width: the width of the iframe (pixel value).  height: height of the iframe (pixel value).  frameborder: determining whether or not to display  a border. |

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| **Step-by-Step** | | **Finish? (√)** |
| Step 1: | Create a file named iframe.html. | / |
| Step 2: | Type the code below into a new file that is created.  iframe.JPG | / |
| Step 3: | Save the file and click on the file to see the results display. | / |
| Step 4: | Change the value of frameborder to 0 and repeat Step 3. | / |

Note: Due to the target of the link is iframe\_A, which is the name of the frame, then the three links will be displayed in the iframe.

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| **Conclusion:** | frameborder to 0 |

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| **Objective:** | Colors in HTML. |
| **Description:** | Colour in HTML can be represented by a hexadecimal value, or RGB value for the color name itself. There are more than 16 million colors that can be used in HTML. In this activity, you are introduced to the style attributes used to decorate HTML elements. |

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| **Step-by-Step** | | **Finish? (√)** |
| Step 1: | Create a file named warna.html. | / |
| Step 2: | Type the code below:  warna.JPG | / |
| Step 3: | Save and click on the file to see the results display. | / |

Note: Through a Google search, you can find various websites that provide a reference for the color codes that can be used in HTML.

Activity:

List the sites that provide the service colors can be used in HTML.

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| **Conclusion:** | [**https://htmlcolorcodes.com/**](https://htmlcolorcodes.com/)  [**https://www.unm.edu/~tbeach/IT145/color.html**](https://www.unm.edu/~tbeach/IT145/color.html) |

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| **Objective:** | Creating HTML Forms Using Table |
| **Description:** | In creating HTML Forms, the layout of each form element need to be emphasized. This is to ensure that the form is more user friendly with proper arrangement and ease of use. Among the most commonly used method is to use HTML elements, <table>. |

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| **Step-by-Step** | | | **Finish? (√)** |
| Step 1: | | Create a file named daftar.html. | / |
| Step 2: | | Type the code below into a new file is created.  3.JPG  &nbsp; <input name = "btnSubmit" value = "Submit/Hantar" type = "submit"></td>  </tr> | / |
| Step 3: | | Save the file and click on the file to see the results display. | / |
| Step 4: | | Examine the HTML code that was written line by line. | / |
| **Conclusion:** |  | |