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| UOWC Logo/Header**DPIT128: Introduction to Web Technology****Autumn Session 2020** |

**Assignment 2** (10%) due by **Friday 10th of April 2020** at **11:59 PM**

**Learning Outcomes**

* Ability to develop HTML forms that interact with existing mainstream commercial services
* Ability to develop functional interfaces based on written/tabulated specifications
* Awareness of different HTTP methods and their technical characteristics
* Ability to validate both form and CSS enhanced HTML documents using W3C validation services

**Submission Instructions**

You will need to submit a total of *4 files* using the “Assignment 2” submission facility on Moodle. Please see the table below for an overview of the files *(including their names and extensions)* that are required for each task.

|  |  |
| --- | --- |
| **Task** | **Files Required** |
| **1** | A2\_TASK1.html |
| **2** | A2\_TASK2.html |
| **3** | A2\_TASK3.html |
| **4** | A2\_TASK4.html |

*The assessor will be using the* ***Google Chrome*** *browser. Please test your work with this browser prior to submission.*

This assignment is scheduled to be marked in the laboratory during Weeks 6 & 7. Marks will be deducted if you cannot answer the questions asked about your solution by the assessor.

**Please be aware of the following:**

1. **Late submissions will incur an awarded mark deduction of 10% for each day late.**
2. **Submissions more than 3 days late will not be marked (a zero will be automatically awarded).**
3. **If you need an extension, please apply for academic consideration before the assignment due date/time. The UOW College Academic Consideration Policy can be found at the following URL:**

<https://www.uowcollege.edu.au/about/policies-procedures/index.html>

1. **Plagiarism is treated seriously. If we suspect that work has been copied, ALL students involved are likely to be awarded a mark of zero for the assignment.**

**There are 4 tasks in this assignment.**

# **Task 1:** Complete the HTML and CSS code needed to create a simple form that interacts with the YouTube search engine. You must use the same layout and styling as shown below.

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**Design Requirements:**

* The background colour for the main div element must be specified *inline* *(see “****Design Resources****”)*.
* An arial font and 14px font size should be applied to the main div element.
* The above font and size declarations must be specified *internally* using a single ‘type’ selector.
* The form should display all results in a new window/tab.
* An absolute URL must be used as the image source *(see “****Design Resources****”)*.
* An appropriate image size should be specified *inline* using the correct CSS declaration(s).
* A margin of 20px must be separately applied to the image and control/widget sections of the form.
* The above margin declaration should be specified *internally* using a ‘class’ selector.
* A label element must be used with the text description for each input field.
* A width of 350px should be applied to the input field using an *inline* CSS declaration.
* The background colour for all input fields must be specified *internally* *(see “****Design Resources****”)*.
* A padding value of 5px and matching border effect should also be applied *(see “****Design Resources****”)*.
* All declarations for the above two points must use a single ruleset with an ‘attribute’ selector.
* An arial font and 13px font size should be applied to all input elements.
* The above font and size declarations must be specified *internally* using a single ‘type’ selector.
* Suitable placeholder and required attributes should be included where appropriate.
* A rounding effect of 5px must be specified *internally* using a ‘class’ selector and applied as shown.

You will need to determine the value for both the form *action* and *method* attributes. Take some time to experiment with the YouTube search engine and review any examples covered in the lecture slides.

**Design Resources:**

|  |  |
| --- | --- |
| **Background (div)** | [#ffffff](https://www.color-hex.com/color/ffffff) |
| **Image File URL** | <https://mywebspace.net.au/DPIT128/assignment_2/images/youtube_logo.png> |
| **Background (input)** | [#fffff7](https://www.color-hex.com/color/fffff7) |
| **Border Effect** | 1px dotted [#404040](https://www.color-hex.com/color/404040) |

**Please Note:**

* HTML tables must **not** be used to layout this form.
* Each of the CSS rulesets provided in the template must be used within your final design.
* Be sure to include an appropriate/descriptive name for each of your ‘class’ selectors.
* This will be the first of *4 separate files* that you must submit for this assignment.

**This task is worth 2 marks.**

# **Task 2:** Complete the HTML and CSS code needed to create a slightly more elaborate form that interacts with the Google search engine. You must use the same layout and styling as shown below.

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**Design Requirements:**

* The background colour for the main div element must be specified *inline* *(see “****Design Resources****”)*.
* An arial font and 14px font size should be applied to the main div element.
* The above font and size declarations must be specified *internally* using a single ‘type’ selector.
* The form should display all results in a new window/tab.
* An absolute URL must be used as the image source *(see “****Design Resources****”)*.
* An appropriate image size should be specified *inline* using the correct CSS declaration(s).
* A margin of 20px must be separately applied to the image and control/widget sections of the form.
* The above margin declaration should be specified *internally* using a ‘class’ selector.
* A label element must be used with the text description for each input field and radio button.
* A width of 350px should be applied to the input field using an *inline* CSS declaration.
* The background colour for all input fields must be specified *internally* *(see “****Design Resources****”)*.
* A padding value of 5px and matching border effect should also be applied *(see “****Design Resources****”)*.
* All declarations for the above two points must use a single ruleset with an ‘attribute’ selector.
* An arial font and 13px font size should be applied to all input elements.
* The above font and size declarations must be specified *internally* using a single ‘type’ selector.
* Suitable placeholder and required attributes should be included where appropriate.
* A rounding effect of 5px must be specified *internally* using a ‘class’ selector and applied as shown.
* All radio buttons should be grouped and the first/topmost must be selected by default.

You will need to determine the value for both the form *action* and *method* attributes. Take some time to experiment with the Google search engine and review any examples covered in the lecture slides.

**Design Resources:**

|  |  |
| --- | --- |
| **Background (div)** | [#eaeff6](https://www.color-hex.com/color/eaeff6) |
| **Image File URL** | <https://mywebspace.net.au/DPIT128/assignment_2/images/google_logo.png> |
| **Background (input)** | [#fffff7](https://www.color-hex.com/color/fffff7) |
| **Border Effect** | 1px dotted [#404040](https://www.color-hex.com/color/404040) |

**Please Note:**

* HTML tables must **not** be used to layout this form.
* Each of the CSS rulesets provided in the template must be used within your final design.
* Be sure to include an appropriate/descriptive name for each of your ‘class’ selectors.
* This will be the second of *4 separate files* that you must submit for this assignment.

**This task is worth 2 marks.**

# **Task 3:** Complete the HTML and CSS code needed to create a slightly more elaborate form that interacts with the Target Australia search engine. You must use the same layout and styling as shown below.

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**Design Requirements:**

* The background image for the main div element must be specified *inline* *(see “****Design Resources****”)*.
* An arial font and 14px font size should be applied to the main div element.
* The above font and size declarations must be specified *internally* using a single ‘type’ selector.
* The form should display all results in a new window/tab.
* An absolute URL must be used as the image source *(see “****Design Resources****”)*.
* An appropriate image size should be specified *inline* using the correct CSS declaration(s).
* A margin of 20px must be separately applied to the image and control/widget sections of the form.
* The above margin declaration should be specified *internally* using a ‘class’ selector.
* A label element must be used with the text description for each input field and checkbox.
* A width of 350px should be applied to the input field using an *inline* CSS declaration.
* The background colour for all input fields must be specified *internally* *(see “****Design Resources****”)*.
* A padding value of 5px and matching border effect should also be applied *(see “****Design Resources****”)*.
* All declarations for the above two points must use a single ruleset with an ‘attribute’ selector.
* An arial font and 13px font size should be applied to all input and select elements.
* The above font and size declarations must be specified *internally* using combined ‘type’ selectors.
* Suitable placeholder and required attributes should be included where appropriate.
* A rounding effect of 5px must be specified *internally* using a ‘class’ selector and applied as shown.
* The select element should have two options for displaying either 30 or 90 results per page.
* The “Show 30 results per page” option must be selected by default.
* The “Only search for items available online” checkbox should be checked by default.

You will need to determine the value for both the form *action* and *method* attributes. Take some time to experiment with the Target Australia website and review any examples covered in the lecture slides.

**Design Resources:**

|  |  |
| --- | --- |
| **Background File URL** | <https://mywebspace.net.au/DPIT128/assignment_2/images/background.png> |
| **Image File URL** | <https://mywebspace.net.au/DPIT128/assignment_2/images/target_logo.png> |
| **Background (input)** | [#fffff7](https://www.color-hex.com/color/fffff7) |
| **Border Effect** | 1px dotted [#404040](https://www.color-hex.com/color/404040) |

**Please Note:**

* HTML tables must **not** be used to layout this form.
* Each of the CSS rulesets provided in the template must be used within your final design.
* Be sure to include an appropriate/descriptive name for each of your ‘class’ selectors.
* This will be the third of *4 separate files* that you must submit for this assignment.

**This task is worth 2 marks.**

# **Task 4:** Complete the HTML and CSS code needed to create a customer feedback form that interacts with a PHP form handler via the POST method. You must use the specification table included below as the basis for your final design.

|  |  |  |
| --- | --- | --- |
| **Input Context** | **Control/Widget Type** | **Name Attribute Value** |
| Full Name | Text | full-name |
| Email Address | Email | email-address |
| Services | Select *(Multiple)* | services[] |
| Comments | ??? | comments |

**Design Requirements:**

* A background colour for the main div element must be specified *inline* *(see “****Design Resources****”)*.
* An image has been provided and should be included within your solution *(see “****Design Resources****”)*.
* A label element must be used with the text description for each control/widget *(excluding buttons)*.
* A PHP form handler has also been provided and should be used for this task *(see “****Design Resources****”)*.

**All other relevant design parameters must match the specification given for the previous forms.**

**Design Resources:**

|  |  |
| --- | --- |
| **Background (div)** | [#f9fff9](https://www.color-hex.com/color/f9fff9) |
| **Image File URL** | <https://mywebspace.net.au/DPIT128/assignment_2/images/feedback_logo.png> |
| **PHP Handler URL** | <https://mywebspace.net.au/DPIT128/assignment_2/php/task_4.php> |

**Important Tip:** Use the feedback provided by the form handler to test your design. The output will clearly indicate if the information has been received correctly. Unsubmitted values will appear in red *(see example 1)* while values that have been correctly passed will appear in green *(see example 2)*.



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**Please Note:**

* HTML tables must **not** be used to layout this form.
* Each of the CSS rulesets provided in the template must be used within your final design.
* Be sure to include an appropriate/descriptive name for each of your ‘class’ selectors.
* This will complete the set of *4 separate files* that you must submit for this assignment.

**This task is worth 2 marks.**

# **The following applies to all relevant components of your submission:**

|  |  |
| --- | --- |
| **Additional Marking Criteria** | **Available Marks** |
| Documents validate without issue(s) using the W3C HTML & CSS validators | **1.0** |
| All URL values are absolute *(includes both images and form handlers)* | **0.25** |
| All images have alt attributes with suitable/descriptive values | **0.25** |
| HTML & CSS code is neat and suitably indented *(2 Spaces Only)* | **0.25** |
| Documents contain explanatory HTML & CSS commenting where appropriate | **0.25** |

**- THIS IS THE END OF THE ASSIGNMENT -**

Version 2.2 by Jason Rodriguez