**Assignment**

Create a PHP form that will collect a website url. **(35 points)**

* For the input use a type text rather than the HTML 5 url.
* Add validation to ensure the url entered is correct.
* If the url entered is incorrect or has already been recorded in the database, display an error message, re-display the form, and re-populate the form with the incorrect value.
* If the url is correct, use curl to get the html and return it in PHP.
* If there is an error display the error to the user, and allow them to try again by displaying the form.
* If curl was successful use the html output to run a regex match of all the links on the page.
* you can use this regex to find a match on all the links in the output. **/(https?:\/\/[\da-z\.-]+\.[a-z\.]{2,6}[\/\w \.-]+)/**
* Make sure all the links found are unique. All links must start with http.
* Insert the link into the sites table.  Get a reference to the lastInsertId.
* Use the site ID to add the relationship to each link into the sitelinks table.
* Along with a success message, display the site and the links that were just added to the database.

Create a Sites Lookup page **(20 points)**

* Have a drop down of saved sites.
* Once a site is selected query the sitelinks based on the site\_id.
* Display the results. Add a popup link to each site.  Use the attribute target="popup" in the link tag.
* Above the table display the site selected with the date and time they were retrieved along with the amount of results found.
* Make sure the date format is displayed as (mm/dd/yyyy).
* Make sure the last selection is selected in the drop down.

Add a header to your site.**(10 point)**

* Make sure to include the header on each page.
* The header should have links to other pages on the site.

Optional: Add **bootstrap** and add CSS styles to your application.

* This requirement will be graded as part of your functional grade.
* No JavaScript is needed so make sure to only have .css files.
* Feel free to use the bootstrap CDN support to add the css and theme files.
* Go to [http://getbootstrap.com/getting-started/ (Links to an external site.)Links to an external site.](http://getbootstrap.com/getting-started/) for more information.

This assignment is due **at the end of Monday's class, Week 7.**

**"Plain English" explanation of how this should work:**

* I added a Delete button on my demo site. Clicking that button will delete the contents of the two tables, so that when you enter your site you may more clearly see what your application should do. Now, before anyone asks: You are not being asked to also create delete capability!

Since you have two tables, you should create two model files, one for each table.

Spend some time on php.net looking up preg\_match, preg\_match\_all, count, file\_get\_contents, date and strtotime functions, the array functions, and the PDO and PDOStatement classes. (I've noticed Chrome doesn't much like to display php.net on my iMac.)

Your index page should acquire any url sent from the form. Please, do not use an html5 url element, use an input type="text" in your form.  
You should then initialize an error message variable with an empty string and grab your database connection.  
If the url is empty, null, or not a match for the pattern given to you then set the error message variable to an appropriate message.

ElseIf (hint!!) it is not unique in the sites table, then set the variable to a different appropriate message. To determine this, a simple select for all records in sites whose site value matches the url will do. If the count of the associative array is greater than zero, it is already in the table and therefore not unique

Else the thing to do is grab the site's contents and use the pattern to get all of the matches of the url pattern (and use PREG\_OFFSET\_CAPTURE as the option), storing them in an array variable. You then insert the url into the sites table, grabbing the last inserted id from your PDO as you'll need that to use as a foreign key.

Create an empty array to contain the links, then fast iterate (foreach) through the matches you found. PREG\_OFFSET\_CAPTURE creates a multidimensional array, so you'll need to do an inner fast iterate and push element 0 of that onto your array of links.

When done, use an array function to make sure the array only contains unique links. Store the returned array and empty the original link array. Fast iterate through the array of unique links and only insert strings that are not empty or null back into your siteLinks table in the db, using the site's id as the foreign key. After you've done all of the inserts into siteLinks you should select all of the rows from that table that have your site's id as a foreign key and display them in a table as well as the url entry form. (Don't forget to empty that url variable!) The form view should display any error message.

The sites listing page should create a listing of the sites to choose from. A selection of a site should cause all links with that site id as it's foreign key to be selected. Each row retrieved is displayed as an anchor with the value as the value for the href attribute and popup as the value for the target attribute.

Rubric

**Code Submission Standards-**

| Code Submission Standards- | | |
| --- | --- | --- |
| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeCode is formatted and clean  *Netbeans IDE has a way for you to format your code. Select all the text on the page, then go to the menu Source -> Format or ( Alt + Shift + F )* | |  |  | | --- | --- | | 5.0 pts  Full Marks | 0.0 pts  No Marks | | 5.0 pts |
| This criterion is linked to a Learning OutcomeCode has comments  *Comments do not have to be long. Have a clear explanation as to why something was done, not as to what the code is doing.* | |  |  | | --- | --- | | 5.0 pts  Full Marks | 0.0 pts  No Marks | | 5.0 pts |
| This criterion is linked to a Learning OutcomeCode follows separations of concern  *The code should limit or have no HTML being echo by PHP. Echo should only be limited to PHP variables.* | |  |  | | --- | --- | | 5.0 pts  Full Marks | 0.0 pts  No Marks | | 5.0 pts |
| This criterion is linked to a Learning OutcomeNo code errors are being reported by PHP  *I should not see any PHP code error reporting/messages when testing your code* | |  |  | | --- | --- | | 5.0 pts  Full Marks | 0.0 pts  No Marks | | 5.0 pts |
| This criterion is linked to a Learning OutcomeAll HTML/CSS markup is correct  *It is important that all HTML and CSS syntax is correct. Make sure tags are properly open and closed. Use external style sheets for your CSS ( css files )* | |  |  | | --- | --- | | 5.0 pts  Full Marks | 0.0 pts  No Marks | | 5.0 pts |
| This criterion is linked to a Learning OutcomeThe Assignment is complete and meets all of the requirements to function | |  |  | | --- | --- | | 75.0 pts  Full Marks | 0.0 pts  No Marks | | 75.0 pts |
| Total Points: 100.0 | | |

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