Project 7 – Popular baby names

Goal

Design an app / site that allow users to vote on their favorite baby names and displays updated statistics of the most popular baby names. It should demonstrate your knowledge of (primarily) PHP, AJAX, and MySQL and build upon your existing knowledge of HTML, CSS, Bootstrap, JavaScript, and jQuery.

Recommended Procedure:

1. Make sure you have your **lamp.cse.fau.edu** server space set up and you know how to access your MySQL database on the server using phpMyAdmin.
    Please refer to detailed instructions and screencasts on Canvas/YouTube, if needed.
    *Please note that you **must** have a server setup for your PHP code to work*.

Milestone 1: connection with database (starter code: 'tableTest')

2. Download the *tableTest.zip* file from Canvas. It consists of two files: *tabletest.php* and (under directory php) *db_connect.php*.
3. Update your *db_connect.php* file with your proper credentials.
4. Upload the two files (maintaining the proper directory structure) to your area on the server.
5. Run *tabletest.php* to test if you can successfully connect to the database. It should show the following[1]:

Database Table Test

Step One Creating the table

```
CREATE TABLE `TEST` (
    `id` int(11) NOT NULL AUTO_INCREMENT,
    `value` varchar(50) DEFAULT NULL,
    PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

Table creation successful.

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[1] Live version at: https://lamp.cse.fau.edu/~omarques/tabletest/tabletest.php

Step Two Inserting into the table

```
INSERT INTO `TEST` (`id`, `value`)
  VALUES (NULL, 'Test 1'),
    (NULL, 'Lorem Ipsum');
```

Values inserted successfully.

Step Three Retrieving the rows

```
SELECT * FROM `TEST`;
```

id: 1 - value: Test 1
id: 2 - value: Lorem Ipsum

Step Four Dropping the table

```
DROP TABLE `TEST`;
```

Table drop successful.

Milestone 2: create and populate a database table for baby names

6. (OPTIONAL) Explore the "Get Ready for Baby" site: https://www.ssa.gov/oact/babynames/
7. Download the file containing the 1000 most popular baby names in 2018, **yob2018.txt** (available on Canvas).
8. Create a much smaller version of the file (with 100 names (50 boys + 50 girls) only), while keeping the same format/layout. Let's call it **yob2018short.txt**. Use this file for your tests and only switch to the actual original file when you're sure that your site/app works as intended.
9. Upload the **yob2018short.txt** file to your area on the server.
10. Write a new PHP script to:
    o Connect to the database
    o Create a table ('BABYNAMES') for storing the most popular baby names
    o Populate the table using the raw content from **yob2018short.txt**.
    o Display the table's contents on a web page.

==Milestone 3: implement basic functionality==

11. (OPTIONAL) Look at these examples from previous semesters for inspiration:
    https://lamp.cse.fau.edu/~astallo1/hw6/index.php
    https://lamp.cse.fau.edu/~dbenne11/p6/index.html
    https://lamp.cse.fau.edu/~dfroome2016/p6/index.php

12. Write a new PHP script that allows users to vote on their favorite boy/girl baby name.
    Basically it should:
    o Display a form containing: a way to select *boy* or *girl*, a text input for typing in the name, and a *Submit* button.
    o Once the *Submit* button is pressed, record the user's input into a table (separate from 'BABYNAMES'), which you use to keep track of the votes received so far.
    o Display the most popular names so far (in decreasing order by number of votes).
        ▪ See https://www.ssa.gov/oact/babynames/ for an example of such table (limited to the top 10 baby names).

==Milestone 4: implement enhanced functionality==

13. (OPTIONAL) Once the app is fully functional, add AJAX capabilities to it, namely: implement a method to autosuggest / autocomplete popular baby names based on the keystrokes typed by the user so far.
14. Polish the app and add bonus features if you feel so inclined.

15. Once you've reached a point where your app is complete and fully functional in the browser of your choice (Chrome, Firefox, Opera, or Safari), **prepare the final package** (single zip, all that is needed, and nothing else).
16. **Submit the final package** via Canvas.

Minimum requirements:

• Your app **must** be your own work. If you use a site, textbook example or any other source as "inspiration" along the way, please make a note of it in your report.
• Your app should demonstrate a basic understanding of PHP, MySQL, and AJAX.
• Your app must be fully functional.

Deliverables

• **A single zip file** containing __all__ files (.php, .css, .jpg, .js, etc.) associated with your project.
• A **report** (2-3 pages) (pdf) describing the entire process, including: the learning curve, the design process, coding troubles, functionality highlights, future improvements, etc.

    Please name your file using your FAU / Canvas username as a filename, e.g., jsmith85.zip.