Goal

Design a unit conversion[1] app using PHP.

Recommended Procedure:

1. Make sure you have your **lamp.cse.fau.edu** server space set up. Please refer to detailed instructions and screencasts on Bb, if needed. *Please note that you **must** have a server setup for your PHP code to work*.
2. **Look at a working example**, such as the temperature conversion **using HTML / JavaScript** code (available on Bb), which you probably used as a starting point for your HW4.
3. **Now look at a working example** that performs an identical conversion, this time **using PHP** (**available at**: http://lamp.cse.fau.edu/~omarques/p4/index.php).
4. **Run the example and ensure that you understand it**.
5. **Open the index.php file using your favorite editor** (e.g., Brackets) and **analyze how it works.**
6. **Upload** the index.php file (+ Bootstrap components) to your area on the **lamp.cse.fau.edu** server and ensure that it works.
7. **Modify** the index.php file (locally) in meaningful ways. For every significant change, upload the file to your area on the **lamp.cse.fau.edu** server and ensure that it works.
8. **Replace** the temperature conversion functionality **with another type of conversion** of your choice.
9. Improve the visual aspects of the app (using **Bootstrap**) if you want.
10. **Test your app** after every significant change / addition.
11. 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).
12. **Submit the final package** via Blackboard.

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 page should demonstrate a basic understanding of using forms and PHP to produce interactive, "data-driven" web pages.
*   The conversion must take place on the server (PHP code), **not** on the client (JavaScript example code).

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[1] You are free to choose the actual conversion (and associated units).

Deliverables

- **A single zip file** containing **all** files (.php, .css, .jpg, .js, etc.) associated with your project and your report (see below).
- A brief **report** (2-3 pages) describing any relevant aspect that I cannot tell just by looking at the page files.
  - For example: the editor(s) you used, the browser(s) you tested your page on, how was the PHP learning curve, which tasks were more time consuming, etc.

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

- **Grading rubric:**
  - **PHP code – correctness:**   **30%**
  - **PHP code – functionality:**   **30%**
  - **PHP code – quality of code (and inline comments)**   **20%**
  - **Overall presentation (alignment, colors, fonts, images, etc.):** **10%**
  - **Report**   **10%**

- **Submission**: Please **submit your files via Blackboard** using *Blackboard's assignment submission option*. **Please don't hand in any assignment by email.**

- **Deadline**: October 26, 2015 - 11:59 p.m. ET

- These guidelines may be updated. Please check your email and Blackboard often.