

GUI Summer 2016

Assignment – W1 Web Programming

Due on July 9, 2016.

Submission Instructions:

1. Please submit your work directly in TRACS (using the TRACS editor) or as a text/MS-word/PDF attachment by the due date/time.
2. Please use only zip for compression.
3. **Please do not submit your assignment via email. If you miss the deadline, then please submit it on TRACS and send me an email notification.**
4. Please write your name in the assignment header and as a part of the file name of the attachment.
5. Please submit only the source code of your program in HTML, JavaScript, and PHP as applicable.
6. In each case, you have to submit the code and three screenshots that show input, submit, and output per applications.
7. You can use the following as the PhP server: On your Linux account, place web files in the `~/public_html_directory`.

Assignment Instructions:

The body mass index (BMI) can be calculated as follows:

$$1) \text{ BMI}_{\text{Imperial}} = \frac{(\text{weight in pounds}) \times 703}{(\text{hieght in inches})^2}$$

$$2) \text{ BMI}_{\text{Metric}} = \frac{(\text{weight in kilograms}) \times 703}{(\text{hieght in meters})^2}$$

In this assignment you have to develop three implementations of a simple web-based user interface.

The implementations should include: 1) a client JavaScript (JS) and JQuery UI implementation, and 2) a server PHP implementation. The following are the input, submission, and display requirements concerning the applications:

- 1) JavaScript –Use a ‘text field’ under the ‘get’ method for numerical input, a ‘submit’ button, a radio button for selecting the BMI formula (Imperial vs. Metric), and instruction such as ‘alert’ for output.
- 2) JS+ JQuery UI –Use any widgets from JQuery UI to get the user input and JS to process it.
- 3) PHP – Use JS and / or JQuery UI to get the UI and use PHP to do the processing. Use the ‘Echo’ instruction for output.