

## Assignment 1

### Introduction

This first assignment will use the basic knowledge we have discussed in week 1, 2, and 3. It is not a difficult assignment but may take you a little while to figure out the logic needed, plan ahead with your time. The assignment is due Sunday, September 20, 2015 at 11:59pm Chicago time. You will need to make sure you have access to a computer hosting a web server capable of running PHP. A local development environment running XAMPP, WAMP, or MAMP as described and demonstrated in class is perfect. Read this document completely and any graduate students must complete the additional graduate student requirements listed within.

### Objective

The goal of the assignment is to create some simple PHP web pages that contain dynamic data and process GET and POST data. The most basic reason for using a programming language like PHP for your web pages is to display dynamic data and the core of any web application is processing user data input through web forms.

### Requirements

- All HTML tags and page structure should be **HTML5** compliant
- Create an **index.php** page that displays the following information
  - Headline with “Hello Guest” or “Welcome Guest”
    - If the page is loaded with no GET parameter in the URL show guest
    - If the page is loaded with a specific URL parameter used in the GET request show the value of that parameter instead of Guest. Tell us what parameter to use in the README file.
  - Headline with Class Number and Assignment 1
  - Headline with Your Name
  - A Link to the form.php file
  - Date/Time stamp showing when the page loaded
    - Format the Date/Time Stamp in the exact format below.  
Page Loaded: Wednesday September 9, 2015 - 10:05:32 am | EpochSeconds
- Create a **form.php** page that will be both an HTML form and a script that processes the results of the HTML form. The form will submit to the same page. If the page is loaded on a first view without POST data, you should display the form. If there is POST data submitted to the form show the results of what was submitted. You will need some branching logic to determine when to show the form and when to show the results.
  - The form should collect First Name, Last Name, Email Address, Comments/Message text area, and something using radio buttons, checkboxes, or a select list.

- First Name, Last Name, and Email Address should be required fields. If the user doesn't fill in those fields they should see the form again instead of the results and get an error notice somehow showing the required fields are missing. Any fields that have data should still have the data in them when the form reloads with the error messages. (Hint set the value attribute of the form control)
- Do not do JavaScript validation. No CSS is required but it may be helpful for your error messages.
- Do some basic processing and validation on the form fields. Remove any extra whitespace characters at the beginning or end; escape special HTML characters to prevent HTML injection. I will try to inject HTML and JavaScript in your form fields.
- If the form data passes validation and there are no errors show a form results page that has the information the user submitted alone with labels saying what the data represents. If there is not data you shouldn't show the label. For example first name might look like.
  - First Name: MyFirstNameValue
- Show a Date/Time stamp showing when the results were submitted/shown
  - This should only be on the successful results view and follow this format  
Submitted: 20 Sept 2015 - 3:42:15 PM
- Use PHP control structures to determine what shows on the page for certain conditions. The form.php should be the only page you have for showing the form, the form with error messages, and the results.

## Graduate Additional Requirements

If you are involved in **any section of 562** you need to complete the additional requirements listed here.

You must also **allow a file to be uploaded** with the form and on the results view **show a link** to download that file. The file should not be a required field but if a file is uploaded it should be stored in an **uploads** directory in your **src** folder.

If you have file write permission problems, make sure the **uploads** directory is writeable. Pay attention to the error code in the FILES array. The PHP docs should have plenty of information to guide you.

## README File

Produce a **PDF README** file in your project zip that describes some components of this assignment. The readme doesn't have to be long but should include a few things.

- Your Name
- Your Email
- The Class and Assignment Number
- The following sections

- **Project Description** – Brief introduction describing the project in your own words.
- **Development Environment** – Description of your development environment. Include things like computer OS, what you are using for your server stack, PHP version number, editors used, and any other details you think you should include about your environment
- **Installation Instructions** – Include any instructions to us if we need them to install or configure your project. For example what parameter to use for the index page GET request to see the dynamic name.
- **Insights and Results** – Include here things you learned, challenges or problems you faced, and any details about the results you received. If you couldn't get something working this would be the place to describe what you tried and what wouldn't work. Feel free to embed screenshots for working and non-working features.
- **References** – Any resources you need to cite of that you might have used for assistance. Not an excuse to copy and paste but if you need to cite a source, do it here.

### Due Date / Late Policy

This assignment is due **Sunday September 20, 2015 11:59 PM Chicago Time**. Late assignments will receive a **10% per day deduction starting at 1 minute late**. We will discuss this in the following class on September 23 so **no assignments will be accepted as of class (6:00pm) that night**. See syllabus for full late policy. **No Extensions**.

### Submission Guidelines

You must upload your submission, including source and all supporting files, as a zip archive to the blackboard assignment by the due date. The submission must be in the following format and structure. If you do not submit your assignment exactly as specified, you will receive a immediate 5% deduction.

#### Submission Format Specification:

**YourUsername\_YourIdA#\_AS1.zip**

```
|-----src (folder)
|       |-----index.php
|       |-----form.php
|       |-----other documents and folders as required
|
|-----README.pdf (describes your submission per above)
```

### Hints

Date Functions

<http://php.net/manual/en/function.date.php>

<http://php.net/manual/en/function.date-default-timezone-set.php>  
<http://php.net/manual/en/function.getdate.php>

#### String Processing Functions

<http://php.net/manual/en/ref.strings.php>

#### Predefined Variables

<http://php.net/manual/en/reserved.variables.php>

#### Control Structures

<http://php.net/manual/en/language.control-structures.php>