Lesson Number 8

Name:

Code Re-Use / Error Handling

Description:

D.R.Y

Understanding DRY

- DRY means Don't Repeat Yourself
 - refers to refactoring code to remove repetitive blocks
- benefits
 - o easier to maintain code
 - o code can be broken down into tasks for collaboration
 - libraries can be built and utilized for new projects
 - writing modular code allows for quicker development
 - modular code allows for better testing

How do you write DRY code?

- Includes or Partials
 - PHP contains 4 functions for including PHP code (include, include_once, require, require once)
 - include() and include_once() will show a warning if an error occurs, but continue to parse the page
 - require() and require_once() will give a fatal error and therefore stop parsing the page
 - include or require _once means the file will be loaded only once, even if requested again during the script execution
 - Includes are best for visual bits of the application. Things like the header or footer of a file. Maybe a template.
 - Partials are a common term given to templated visual elements included in an application

Functions

- o functions are containers for code statements
- o generally, you can execute functions by calling them by their assigned name
- functions can be built using parameters, which allow you to dynamically provide values to the code inside them
- functions can be also be built anonymously
 - anonymous functions are used for inducing scope
 - anonymous functions are also used for callbacks as they allow you to execute a block of code
- · Classes & Objects
 - Classes are blueprints for creating objects
 - they can contain properties and methods
 - properties are used to store values
 - properties can be used by the object to store values needed by the object's

methods

- properties are generally retrieved by using getters and setters
 - methods for setting the value and retreiving the value
 - getters and setters allow for validation of values before being retrieved or assigned
- methods are used to perform actions
 - evaluating code
 - retrieving data from external or internal sources
 - performing lengthy operations
- Classes should contain properties and methods that relate to one topic
 - for example, a database class may contain the following:
 - open connection
 - close connection
 - query
 - bind values
 - a validation class may contain the following
 - a property for storing errors
 - a property for storing the validation state
 - a method for checking if a value exists, or is in the correct format
 - sanitization methods for returning sanitized data
- An instantiated class is known as an object
 - an object has access to any public properties or methods of the class
 - more than one object can instantiate the same class, but the properties and values stored, are scoped to each individual object