**Due Date:** Oct 28, 2018 23:59:59       **Max Points:**90  
  
**Details:**

This is a Collaborative Learning Community (CLC) assignment.

**Objective**: Create a catalog of products

**Activity**: Browse the Internet and review several ecommerce pages to develop a feel for what product management entails Discuss the user experience and make a list of all the elements and functions your catalog administrator panel should do Discuss the interface, specific functions, and necessary backend support Discuss how the catalog administrator interface will visually fit with the rest of the e-commerce project. Discuss how the new functionality might work with existing Prior modules should be modified as needed. Discuss how you would verify the integrity of the data in your database and what integrity means in the context of this project.

**Build**:

1. In MySQL, build the necessary tables to store the information required during the catalog/inventory creation process.
2. In PHP, write a Product Class and a Catalog Class, with methods necessary to implement all inventory management functionality (CRUD), with a special emphasis on categorization (tagging).
3. In MySQL, build the necessary tables to store the information required during the product listing process to reflect new information required by the catalog administrator.
4. Modify the schema, the E-R diagrams, the tables, the keys, and the relationships accordingly.
5. Write the appropriate database connectivity and interaction classes necessary to manage the inventory.
6. In HTML, build the minimally functional forms to support product-level actions and catalog-level actions.
7. In PHP, perform the necessary verification of compliance with constraints you decided upon. Before you code, discuss and decide every detail of the user experience such as size of information being stored.
8. Based on the desired interaction and data captured, build the MySQL tables to store this information and enable the desired functionality. Connect this module to previous modules of your database and ensure cohesiveness.
9. Discuss any revisions that might be necessary to code, tables, or user interface created in previous module(s).
10. In PHP, implement a simple simulation of product information service. Implement this as a separate application, which will be used as a (simulated) external service to the e-commerce site (e.g., simulate information supplied by the manufacturer of the product). This data should be supplied as JSON strings and processed in PHP.

**Deliverables**:

1. The schema and E-R diagram
2. All necessary SQL tables
3. All necessary PHP classes
4. All necessary HTML
5. All necessary Python code, JavaScript, or other language
6. A fully functional New Product Page

**What to submit**:

1. A document describing the project, a list of all modules, files, and a user guide. In the document, explain how desired functionality, features, and constraints have been implemented in code.
2. Upload all necessary files to the GCU Cloud Hosting Solution.
3. In each file, include a commented header with the following information: Project name and version, Module name and version, Programmer(s) name(s), Date, Short synopsis of the module, and References
4. Comments within the code, explaining non-obvious sections
5. Revise previous project and code files as needed and document revisions made.
6. In LoudCloud, submit the URL to your project.