# **Kent State University**

# CS 33901 Software Engineering Spring 2018

#### Project 1

Posted: 2/3/18

Due: 2/13/18, 11:59pm

Questions? email me at aalali1@kent.edu

### A. Class Repository

Perform the following:

**1.** Obtain a working copy of your Subversion (SVN) subdirectory<sup>1234567</sup>:

https://svn.cs.kent.edu/courses/cs44106/svn/USERNAME

- 2. Create a file YOURNAME.txt with what you prefer to be called (e.g. Abdulkareem.txt)
- **3.** Add and commit YOURNAME.txt
- **4.** Check that it is committed via web browser via navigating to the link in **1**.

Your directory tree should look like this at this point:

-- YOURNAME.txt

<sup>2</sup> Thegeekstuff

<sup>&</sup>lt;sup>1</sup> SVN Tutorial

<sup>&</sup>lt;sup>3</sup> <u>Basic SVN Tutorial</u> [Video]

<sup>&</sup>lt;sup>4</sup> Tutorialspoint

<sup>&</sup>lt;sup>5</sup> Maverick

<sup>&</sup>lt;sup>6</sup> Tortoisesvn

<sup>&</sup>lt;sup>7</sup> svnbook.red-bean [The Book]

# B. Book Rep Customer Relations Management

#### Vision

Demonstrate your ability to instantiate classes from text files and then display the content.

#### **Functional Requirements**

- **5.** You are supplied with the necessary images, CSS files, JavaScript File, as well as the starting PHP files. Download the <u>Project Start Code</u>. You have been provided with a PHP file (book-crm.php) that includes all the necessary markup. You have also been provided with two text files, **customers.txt** and **orders.txt**, that contain information on customers and their orders.
- **6.** Define classes to encapsulate the data of a **Customer** and an **Order**. Each line in the file contains the following information: customer id, name, email, university, address, city, country, sales (array). Each line in the orders file contains the following data: order id, customer id, book ISBN, book title, book category.
- **7.** Read the data in **customers.txt** and for each line in that file create a new instance of customer in an array, and then display the customer data in a table.
- **8.** Each customer name must be a link back to **book-crm.php** but with the customer id data as a query string.
- **9.** When the user clicks on the customer name (i.e., makes a request to the same page but with the customer id passed as a query string), then read the data in **orders.txt** into an array of **Order** objects, and then display any matching order data for that customer (see figure). Be sure to display a message when there is no order information for the requested customer.
- **10.** The sales field in the customers table is a series of 12 comma-separated numbers. You will use sparklines.js jQuery library to display those numbers as an inline bar chart.

- **11.** Test the page in the browser. Verify the correct orders are displayed for different customers. Also note that the customer name is displayed in the panel heading for the orders.
- **12.** Try writing a print\_r() statement to output the structure of all **Customer** and **Order** objects and verify they match the data in the files.



#### **Non-Functional Requirements**

- **13.** That one should separate that which varies from that which stays the same; Use the least possible PHP code mixing with HTML markups, utilizes external PHP files as classes and utility files.
- **14.** You must submit valid and semantically appropriate HTML5. <u>Validate</u> the produced HTML5 markup. Submit zero warning and zero error pages.
- **15.** Your submitted repo directory tree structure should be as follows (exact names and structure):

```
-- inclassprojects
projects
 -- project1
      -- book-crm
          -- book-crm.php
          -- css
            data
              -- customers.txt
              -- orders.txt
             images
             includes
              -- book-crm-utilities.inc.php
              -- Customer.class.php
              -- header.inc.php
              -- left-nav.inc.php
              -- Order.class.php
YOURNAME.txt
```

### **Grading**

The grade will be broken down as follows:

Points	Mark
<b>1</b> , <b>2</b> , <b>3</b> , and <b>4</b>	5/100
$\pmb{5}, \pmb{6}, \pmb{7}, \pmb{8}, \pmb{9}, \pmb{10}, \pmb{11}, \text{and } \pmb{12}$	85/100
<b>13</b> , <b>14</b> , and <b>15</b>	10/100