

# The University of the South Pacific

School of Computing, Information & Mathematical Sciences

CS 240 Software Engineering I

**Semester 1, 2013**

**Assignment 3**

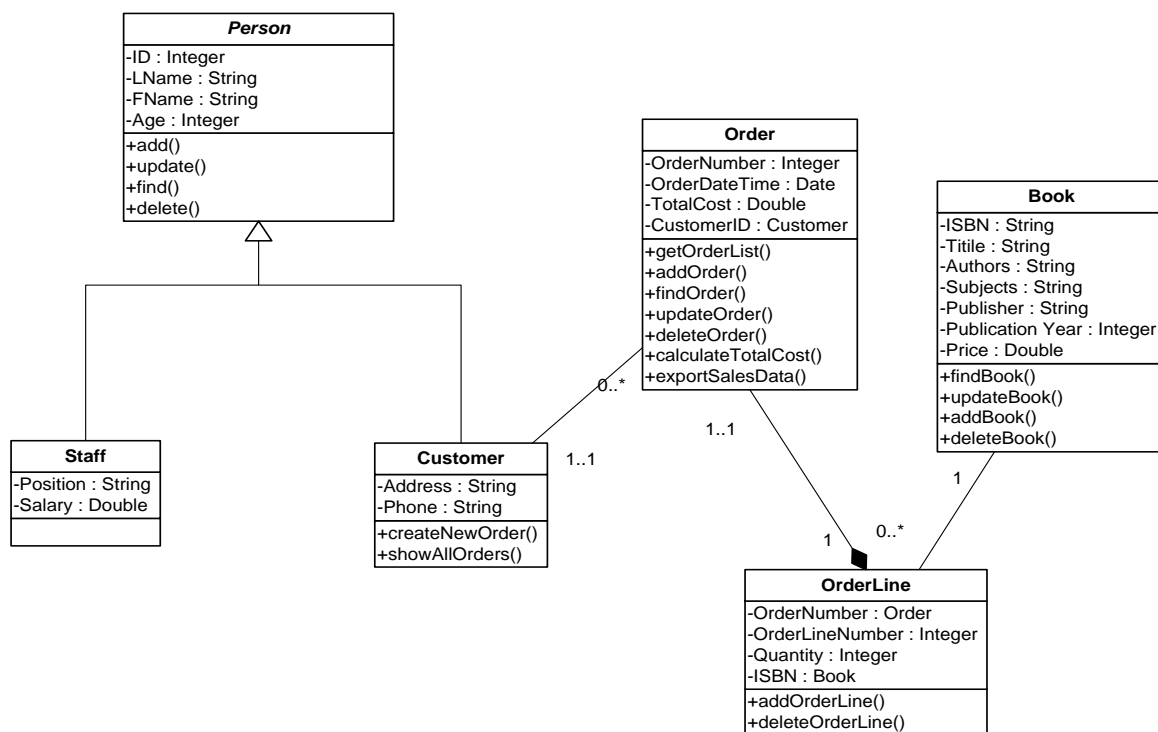
**Weight: 10%**

**Due Date: 31<sup>st</sup> May, 2013 4pm**

## Problem Statement

You have been asked to make a software system for a Book company to maintain the records for the sales of its books. A company sells many types of books. The company has assigned few salespersons to travel throughout the South Pacific for the promotion and sales of the books.

The class diagram for this system is given below:



**Fig. 1 class diagram for a book management system**

**Note:** In Fig.1 above, italicized class name represents abstract class.

### **Requirements:**

1. Create the database for the Book Company. You can use MS Access to create the database and populate the database with sample data.
2. Provide the following menu items for your system. Note that any changes in data should reflect in table in the database.
  - I. Add/Update/Delete customers: This menu is normally used to add a new customer or update existing customer's information or delete a customer record. This functionality is used by clerks.
  - II. Add/Update/Delete books: This is used by clerks to add or update or delete books.
  - III. Add/Update/Delete staff: This is used to add or update staff. This functionality is used by managers only.
  - IV. Generate report: Managers want to see the total books sold by the end of each month. Report must show all the subtotals of all the books sold. The total sale should also be shown.
  - V. The current system does not record the staff information on the order. Modify the system so that it records the staff who sold the books. Modify the class or classes required and test the program.

You are free to add any number of additional class members but make sure you add only relevant members. Additional bonus marks (up to 2%) will be given for using appropriate graphical user interface and appropriate reports.

### **Submission Guidelines**

Submit your assignment through moodle *Assignment 3 submission* link. This assignment has to be submitted in groups of 4. The Id Numbers with Surname & First Name has to be written in the code. Assign a group leader and submit the assignment through the group leader's moodle account. Individual assignments or incorrect submissions will strictly receive 50% of the achieved marks. You have to submit just one zipped file of your assignment. You are also required to include *ReadMe.txt* file containing the information about how to run your program and any other important information. The submission filename should read *assign3\_SWWW\_SXXX\_SYYY\_SZZZ.zip* or *assign3\_SWWW\_SXXX\_SYYY\_SZZZ.rar* where SWWW is the student id of the group leader and SXXX, SYYY and SZZZ are the student ids of other group members.

**Due Date – 7<sup>th</sup> April, 6pm.**

