ISC 560 Spring 2013

Project 1 Part 4 – Due Date Tuesday April 3, 2013 at or before 4:30pm.

**Project 1, Part 4** –As in previous Parts of this Project, failure to work on this Part without outside assistance will result in ALL students involved being charged with violation of USA’s Academic Misconduct policy. Project 1 Part 4 is worth 6 of the 30 total Project points for this class.

***Important:*** ***BEFORE starting this project part you should be sure to correct any problems that I found on your previously submitted project parts, particularly the Contracts.***

Objectives:

1. Using **Microsoft Visio using the same Visio document you have used for all previous parts of this project**, create Communications Diagrams for the 4 operations for which you have already written System Operation Contracts. Label the tabs in Visio for these diagrams with “Communication diagram for *name\_of\_operation*” replacing *name\_of\_operation* with the actual name of the operation the contract is written for. In addition to creating these 4 communication diagrams, you need to complete any addition Communication diagrams necessary to have a complete set of Communication diagrams for ONE of your use cases. Stated another way, when you finish this part you should have drawn communication diagrams for the operations which are part of ONE of your use cases.

On these Communications diagrams you are to use UML notes to attach messages to each place on your diagrams where you have applied a specific GRASP pattern. On each note which should be attached to the appropriate place on your diagram where the GRASP pattern is applied, explain which GRASP pattern you are using and the reason why you are using this pattern. The reason you are using a particular GRASP pattern should include your justification for why you are applying this particular pattern in this situation. These notes are a very important component of your grade for this assignment.

1. In addition, for the use cases you selected for step 1 above to draw all of the Communication diagrams, you should combine the information for all these diagrams data into a single Sequence Diagram. Label the tab in Visio for this Sequence diagram with “Sequence diagram for *name\_of\_use\_case*” replacing *name\_of\_use\_case* with the actual name of the Use Case for which you have drawn Communication diagrams for each of its operations.

Deliverables:

Deposit into the Project 1 Part 4 USAONLINE Drop-box the following:

1. One (1) Microsoft Visio drawing containing your Communications diagrams and your one Sequence diagram.
   * Deliverables which are not in the required format will not be accepted. I will not begin grading of deliverables until after the due date.