MGMT2107 – Assignment #4

- Required/Applicable Software:
  - Microsoft Visio

- Submissions:
  - ***COMPLETE & SUBMIT INDIVIDUALLY – This is NOT a group assignment. For this lab everyone must produce and submit their own diagrams.***

What You Need to Do:
1. This assignment is a continuation of Assignment #3.

2. Create a CRUDE Matrix

    a. Identify objects

    b. Identify object collaborations

    c. Utilize the matrix to represent the objects and their interactions

3. Create a Sequence Diagram

    a. First, review the included Class Diagram and the case study information from Assignment #3. You will need to focus on the Book Room Reservation use case.

    b. Second, identify objects, collaborations and the messages (operations) relevant to that use case. Consider the following:

        i. Responsibilities

        ii. Attributes

        iii. Collaborators

    c. Then, create a sequence diagram:

        i.   Show collaboration of the relevant objects for the use case using standard UML principles.

4. Create a State Machine Diagram

    a. Refer to your sequence diagram to observe state changes.

    b. Create a diagram that depicts state changes of a room reservation.

Grading Scheme: (Total: 115 points)

CRUDE Matrix (10 points)

1. Matrix is well-formatted, professional looking (5)
2. Accurately indicate CRUDE between objects (5)

Sequence Diagram (30 points)

1. Uses correct UML syntax (15)
2. Accurately describes the chosen use case (15)

State Machines Diagram (15 points)

1. Uses correct UML syntax (10)
2. Accurately describes the chosen object's state changes in the chosen use case (5)

Overall Quality (60 points)

1. Adhere to UML design principles throughout (10 points)
2. Show coherence between crude, sequence and state machine diagrams (15 points)
3. Create a neatly organized diagram that is easy to read (15 points)

4. All elements reflect an accurate representation of the business case as presented, and discussed, without superfluous or out of scope pieces.
(30)