**Northeastern University – Silicon Valley**

CS 6650 Scalable Dist Systems

**Homework #4 Assigned: 5/31/19 Due: 6/9/19** [100 points]

***INSTRUCTIONS: Please provide clear explanations I your own sentences, directly answering the question, demonstrating your understanding of the question and its solution, in depth, with sufficient detail. Submit your solutions [PDF preferred]. Include your full name. Do not email the solutions.***

1. Study fromCoulouris Book

Chapter 6 Indirect Communication

Answer the following questions using explanation and diagrams as needed. No implementation needed.

1. 6.1 [10 points]
2. 6.6 [10 points]
3. 6.8 [15 points]
4. 6.16 [10 points]
5. Chapter 9 Web Services

In Exercise 5.11 (page 227 Couloris) an Election interface is described. Keeping this in mind, answer:

(from Exercises of Chapter 9 – pasge 421)

1. 9.3 [10 points]
2. **Implement** the above Election process as a Web Service using Java. [45 points]

Research a suitable framework to implement this. Reference Tutorial is provided in Lecture Set 4 Files, and below:

**References**

https://www.journaldev.com/9170/restful-web-services-tutorial-java

https://www.tutorialspoint.com/restful/restful\_first\_application.htm