

CS 6314, Spring 2016
Dr. Mithun Balakrishna
Homework 1
Due January 31st, 2016 11:59 pm

A. Submission Instructions:

- Submit your solutions via eLearning.
- Please submit a single PDF/Doc/PS/Image file with the solutions.
- Late Submission Penalty:
 - up to 2 hours late — 10% deduction
 - 2 - 4 hours late — 20% deduction
 - 4 - 12 hours late — 35% deduction
 - 12 - 24 hours late — 50% deduction
 - 24 - 48 hours late — 75% deduction
 - more than 48 hours late — 100% deduction (zero credit)

B. Problems:

- 1. (25 Points) Define in your own words the following HTTP Request Methods with one or more examples:**
 - a. HTTP GET
 - b. HTTP PUT
 - c. HTTP POST
 - d. HTTP TRACE
 - e. HTTP OPTIONS
- 2. (25 Points) Describe Shared-Nothing architecture using a real-world web application as an example.**
- 3. (50 Points) Your client requires a website for the following services:**
 - a. Very fast flight searches
 - b. Highly available travel booking request
 - c. Reliable travel itinerary access

Design a scalable, service-oriented architecture to meet your client's requirements.