

# Assignment 3

**Due Date: 24<sup>th</sup> April 2013**

## **Project Description**

1. The project should address a real life situation and be implemental (though you will stop with the design in this project). I suggest that you search the Internet for B-to-C E-commerce systems that you can use. For example, the following are good sources:
  - a) airline (or train, cruise, concert, or other) ticket purchase
  - b) shopping sites on the internet
  - c) Online banks and financial institutions
  - d) Online insurance (life, medical, homeowner, and others) purchase
  - e) Rentals (car, video, audio, and others)
2. For the firm you have chosen, identify the major functions that a visitor can perform on the website by navigating through the website. You may have to register at the site to get access to the more important functions the site allows you to perform.
3. Document each function. Figure out the process used in each function, the inputs used, and the outputs generated. You have to use your knowledge about the industry /firm /function to identify other data used by the system.
4. Identify at least two problems or limitations related to the functionality. The limitations could be new functions that could be useful to a potential customer or improvements over existing functions. The problems should not be related to visual or speed of the website.
5. Model the system using structural analysis models or object-oriented analysis models.
6. Analyze the models and propose a new system.
7. Transform the models into detailed design

## **Project Deliverables**

### **Phase 1:**

Interact with the website to understand the functionality provided by the site. Identify any problems you encounter in using the site. Note down any improvements that can be made. The problems and improvements should relate to the functionality provided by the system.

Your documentation must include.

- Source documents, including screen dumps, from the website.
- A brief description of functionality provided by the system.
- A problem statement (Include only the problems or limitations you encountered)

### **Phase 2:**

Identify new processes, data, and data flows for the new system. Your new model should be able to eliminate (at least partially) the problems that you had identified in the current system. Prepare the new logical model that includes

If you use a structural method prepare the following for the proposed Web-site:

1. Data Flow Diagrams of the Web site.
2. Process description

If you use object-oriented analysis method prepare the following for the proposed Web-site:

1. state transition diagrams
2. activity diagrams
3. Documentation of all data used

### **Phase 3:**

Transform the logical model into a detailed design. The design should include

- A. Database design:
  - 1. create an ERD  
There is no need to implement the database.
- B. Interface & Screens Design
- C. Input, Output & report Design.

### **Take note:**

### **The following will be penalized**

- Plagiarized work.
- Late submission.