**Metropolitan State University**

**ICS 311 —Database Management Systems**

**Term Project Step 1**

Due: see syllabus

**Total: 10 Points**

The term project involves designing and implementing a database system for an organization. Each student has to work individually in this project, ***unless otherwise instructed in class***. The term project is made up of a series of four deliverables, each building towards the finished product. Please remember that all deliverables must be submitted by midnight of the class day on the date they are due. Late deliverables will be penalized according to the late work policy, unless prior arrangements have been made.

The project requires building a database application for a real-world scenario of your choosing. Some examples include: books, movies, music, computer games, geographical locations, genomic sequences, white water rafting resources, flights, etc. **Note that you cannot choose the University database that is used in the text book nor the Customer-Invoice schema that is used in assignment 3.** Try to pick an application that is relatively substantial, but not too big. For example, you might want your design to have in the range of 5 to 8 or so entities.

You will design schemas for the database, and you will create an actual database using the MySQL relational Database Management System. You will populate the database with sample data, write interactive queries and modifications on the database, and develop user-friendly tools for manipulating the database.

**Step 1: What to submit?**

You are required to submit a one-page project description of your application. This is an initial, but reasonably well-thought out, one-page description of the database application you propose to work with throughout the course. You may state any assumptions you would like to make. Make sure your submission includes the following:

1 (5 points) One paragraph description of your application.

Self-order Foods Restaurant Application: Through this application, customer could order foods by itself from the App by display screen device without waiter or waitress. The App can be use for print out the receipt and invoice for customer who has register and login to order, and also recording customer information and orders history in the Restaurant’s Database. If user is Admin or manager and enters to the application, he or she can manage and modify customer’s accounts, recipe,calculating and summary order items and payment from Restaurant’s Database.

2 (5 points) The business explanation of at least 5 scenarios for queries that need to be answered using your database.

E.g. 1. List names and order’s date-time of all customers for this month.

2. List out the foods menu which have discount and order by high to low.

3. List customers name who make a payment more then $200.

4. List out the top 5 of popular foods for this week.

5. List out all menu which no spicy.