NORTHEASTERN UNIVERSIY

MIE Department

Fall 2014

IE3425 Engineering Databases

FINAL PROJECT

Assigned 11/5/14 (MySQL, Web-based GUI)

Due: 12/8/14 by 8 p.m. in your course account. Late submissions, not accepted

Instructions:

A. **Work individually, however you can brainstorm with you fellow students.**

B. **Create a folder on your website, call it FinalProject.**

C. **Make sure you put your project report in your website folder**

D. **Late projects: Not accepted. NO EXCEPTIONS.**

Description:

You will be working from the database that you designed in your Midterm Project. The midterm project focus was twofold: (1) design a robust database system, (2) implement the DB system using a local-based system, i.e. Access software to create the backend and the front end of the DB system

The goal now is of the final project is to implement the same DB system of the midterm project using a Web-based system: front end and back end. For such a system, you use XHTML to design the DB front end by creating a website and Web pages to support your DB functionality. Your users interact with this front end to add new data to DB and/or extract information from it. For the back end, you use MySQL software. Finally you use PHP to connect the front and back ends.

All of the tools that have been learned since the Midterm Project will need to be incorporated into the database implementation. To allow you to compare the two types of GUI, keep the functionalities of both GUI identical. Here are the requirements:

- **Web based GUI**
    - **Use a home Webpage where each tab in Access becomes a link to open a new Webpage that corresponds to the tab content**
    - **Use all HTML elements we covered: text, links, lists, colors, images, tables, forms (Controls in Access)**
    - **Use at least two forms to add data to your MySQL DB (same as Access)**
    - **Use at least two forms that extract information from your mySQL DB (same as Access)**
    - **Use at least two reports (a report here is a Web page with text and lists, etc.). You must use SQL queries on your MySQL DB to generate the**

results (records); then display them in a table in a Web page, all dynamically using HTML tables.

Please create a report in Word to document your database implementation and answer all questions in the grading rubric, and submit screenshots as outlined by the attached rubric of your database.