CSC 411/511 DBMS Design Course Project Overview

Due time: November 6, 2024, 11:59 PM

Project Description: The course projects are adapted based on the first four **sample term projects** provided on our textbook website:

URL: https://www.db-book.com/db7/university-lab-dir/lab-exercises-projects.html.

The four projects are listed below:

1. **Retailer** database
2. **Automobile** sales database
3. **Electronics** vendor database
4. **Package** delivery database

Their descriptions can be found in the project folder. You are free to choose **one** project from them. Please note that each project requires designing a **website** (but may be hosted locally on the same or another computer, that is running on a pseudo online mode for development and testing only). So, you should have basic knowledge in web application development skills, as described in Chapter 9 of our book.

Grade: 100 marks in total, while it accounts for **50%** towards the final grade.

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Type: independent work

Query language: SQL

DBMS: MySQL (preferred), Oracle RDBMS, Microsoft SQL Server, IBM DB2, PostgreSQL, or other commonly used DBMS

Programming language: Java/Python (preferred), C/C++, or any other advanced programming languages

Web Programming language: HTML, CSS (optional), JavaScrpit (optional), JQuery (optional)

Submission:

1. **Venue: Canvas**.
2. **Contents:**
   (1) **Code**. Please add necessary comments to the code to help me understand and grade your program.
   (2) **Running instruction and results**. Please provide a Readme.txt file to list the steps to configure your DBMS and run your web application program, including the software environment. It is also REQUIRED to provide your results by

including the relevant **screenshots/files** in a **"Result"** folder. You are also required to create and include a **video clip** to demonstrate your database and running results.

(3) **Project report**. It is required to submit a project report including at least the following items: **abstract**, **problem description, database design including your E-R diagram and relational schema, implementation details**, **running results and analysis**, **conclusions on what you have learned in the project**, and **references** (if applicable, also explicitly cite them in your project report). **For more details, please refer to the related contents mentioned in each project description document**.

Please **zip** all the above documents into one package and name it as "**Last_Name_First_Name.zip**". You may submit your assignments several times before the deadline. No email submission is accepted.