**Project Task 4: Milestone 2(Application Implementation)**

*Due: Saturday Dec 11th, 2021 @ 11:59 PM*

**Assignment purpose:**

The purpose of this assignment is to develop a working relational database application using Java for a real-world application. In this project, you will be able to learn database design methodology for relational database and create a database which can store data efficiency and retrieve information effectively.

**Skills:**

* Simulate how the traditional applications using Java can access and use data from a database
* Practice how to use JDBC API to connect to a database
* Create a complete Java application that can access MYSQL Database and retrieve some queries
* Practice OO skill in implementing a large project with multiple tasks
* Build presentation skills with a clear explanation and demonstration of your work
* Experience working as part of a team

**Introduction:**

By now you should have your Application Design and some data samples to use for testing.

For milestone 2 of the project, you as a team are requested to implement a Java application for the chosen project idea. You will need to connect your database with Java and create a Java application.

***Please note*: Java GUI is not required, Console is sufficient.**

**Tasks:**

For this Assignment, you need to address all the items listed below.

1. ***Item 1: Java Application Implementation***

Please check Canvas🡪 Modules 🡪 Project Java Application Teams Tasks. For the complete scenarios and the query sets that are required by your team.

1. ***Item 2: Video presentation (10-15 min maximum***

* Record a video and upload it to YouTube to demonstrate your project implementation tasks as a team. The video recording has to be completed by all the team members. Please make sure everyone is presenting their tasks.

1. ***Item 3: Self reflection***

Every team member should fill out and submit their self-reflection progress report template**.**

**What to submit**

* **Part 1: Only one submission per team for the following:**

1. The Java source code for your application.
2. The URL for the YouTube video that demonstrates your project execution and code implementation. Please record the video as a team and make sure everyone is presenting.

* **Part 2: Individual submission under self-reflection project task 4 submission on Canvas:**

1. Submit the filled self-reflection progress report template by every team member to reflect on the individual tasks and the teamwork experience during this task as a team.

**Teamwork resources and recommendations:**

1. Choose a team leader to be responsible with submissions and team management
2. Choose the most suitable communication method (e.g. email, chat, Teams, Discord, Canvas)
3. Choose a document sharing software such as Google drive, Canvas, GitHub etc.
4. Choose a platform for code sharing and code merge.
5. Arrange a regular meeting time for team discussion and progress check-ups
6. Consider using some of the team management software. There are many online software tools that can be used to help teamwork. Tools are useful to allow remote team communication. Check some of them below
   1. [Trello](https://trello.com/en-US)
   2. [Asana](https://asana.com/)
   3. [Zenhub](https://www.zenhub.com/)

**Grading**

To receive a full grade on your submission, you **must** submit all required files for task 1 and 2 to canvas, and the individual submission for task 3. If the individual member has no progress report refection submission, it will result in a **zero grade** for the grading criteria. Individual grading will be based off the rubric below.

**Here is the Rubric I will use:**