

## PROJECT SUMMARY

At the beginning of the project, I planned to use Node.js and Javascript to build a web application. I spent a while to learn how to build the application with those languages but I had a hard time render the data using HTML and javascript. Therefore, I decided to switch to using JavaFX to build the GUI of my application. I had to learn how to use FXML to build the GUI. In the process of building the database, I found that I can reduce the length of my Java code using stored procedures.

The following are the links that I used to learn about the materials in the process of doing my project:

I learned Node.js and Javascript in this website:

[https://www.w3schools.com/nodejs/nodejs\\_mysql.asp](https://www.w3schools.com/nodejs/nodejs_mysql.asp)

<https://www.w3schools.com/js/default.asp>

I learned Javafx using Oracle documentation:

<https://docs.oracle.com/javase/8/javafx/api/toc.htm>

and Jenkov.com FXML Tutorial:

<http://tutorials.jenkov.com/javafx/fxml.html>

I also used MySQL Documentation to find examples of how to use queries that I did not know:

<https://dev.mysql.com/>

How to use Connector/J in Java and examples:

<https://dev.mysql.com/doc/connector-j/8.0/en/connector-j-usagenotes-connect-drivermanager.html>

The most challenge that I had was to switch from using Node.js and Javascript to JavaFX when there was very short time until the due date of the project. I think one of the difficult parts of the project was to design the database and come up with an ER Diagram for it. My plan was to have the data broken into more tables than I currently have in this project. However, since I had to reentry the data for each table from only one table that I downloaded; this was really time consuming.

The other challenge that I encountered was to have some really hard to fix bugs which I spent days to figure out the way to handle them. I had to reduce the content of my project to avoid the complication because of the time limit.

If I had to build a database application in the future, I would choose the language and Database Management System depends on the requirement of the application. If the requirement was to build a web application, I would need to use another language. There are many Database Management Systems which have their own advantages and disadvantages, so I think I will choose the one that suitable to the requirement of the application that I have to build.

