ENSF 409 FINAL PROJECT- GROUP#8

In this document we will explain how to run our program and unit tests. Note that the lib folder with all the dependencies have already been included, so you should not have to add any jar files of your own.

RUNNING THE MAIN PROGRAM:

It is required that the user is logged in with username: scm and password: ensf409 in the SQL database. In order to run the main program, you will need to cd into the directory right before the edu and lib folder(directory Group #8) and type the following commands:

Windows

```
javac -cp .;lib/mysql-connector-java-8.0.23.jar;. edu/ucalgary/ensf409/Transaction.java
```

```
java -cp .;lib/mysql-connector-java-8.0.23.jar;. edu/ucalgary/ensf409/Transaction
```

alternatively, you can also run the run.bat file in command prompt

MACOS and linux

```
javac -cp .:lib/mysql-connector-java-8.0.23.jar:. edu/ucalgary/ensf409/Transaction.java
```

```
java -cp .:lib/mysql-connector-java-8.0.23.jar:. edu/ucalgary/ensf409/Transaction
```

alternatively, you can also run the runProgramLinux.sh file in your terminal

RUNNING THE UNITTESTS:

To run the unit tests, you not only need the default log in credentials(Just like it was needed for the main program), but you MUST use the database we give “unitTests.sql” which is located in the top level of the zip file. The reason behind this is because we expect that the name of the unit tests database will be named explicitly “UNITTESTS”. Other than that, the values in the table don’t matter because we empty and repopulate our tables before each test. The following commands (once you cd right outside the edu folder) to run the unit tests are:

Windows:

```
javac -cp .;lib/mysql-connector-java-8.0.23.jar;. edu/ucalgary/ensf409/Transaction.java
```

```
javac -cp .;lib/junit-4.13.2.jar;lib/hamcrest-core-1.3.jar;lib/mysql-connector-java-
8.0.23.jar;. edu/ucalgary/ensf409/TransactionTest.java
```

```
java -cp .;lib/junit-4.13.2.jar;lib/hamcrest-core-1.3.jar;lib/mysql-connector-java-
8.0.23.jar;. org.junit.runner.JUnitCore edu.ucalgary.ensf409.TransactionTest
```

Alternatively, you can run the runTests.bat file in command prompt.

MACOS and Linux:

```
javac -cp .:lib/mysql-connector-java-8.0.23.jar:. edu/ucalgary/ensf409/Transaction.java
```

```
javac -cp .:lib/junit-4.13.2.jar:lib/hamcrest-core-1.3.jar:lib/mysql-connector-java-
8.0.23.jar:. edu/ucalgary/ensf409/TransactionTest.java
```

```
java -cp .:lib/junit-4.13.2.jar:lib/hamcrest-core-1.3.jar:lib/mysql-connector-java-
8.0.23.jar:. org.junit.runner.JUnitCore edu.ucalgary.ensf409.TransactionTest
```

Alternatively, you can run the runTestsLinux.sh file in the terminal.

RUNNING JAVADOCS:

Since we have one big package with subpackages, here is the command to run the javadocs on the entire project. Note that the javadocs files will be sent into the docs folder. Just like the other 2 procedures, you will need to be outside the edu directory (where all the scripts are)

Windows:

```
javadoc -d docs -cp .;lib/junit-4.13.2.jar;lib/hamcrest-core-1.3.jar; edu.ucalgary.ensf409
```

Alternatively, you can run the runJavaDocsWindows.bat file in command prompt

MACOS and Linux:

```
javadoc -d docs -cp .:lib/junit-4.13.2.jar:lib/hamcrest-core-1.3.jar: edu.ucalgary.ensf409
```

Alternatively, you can run the runJavaDocsLinux.sh file in the terminal

We have also already ran javadocs on the program and populated the docs folder, so you can access the docs directly without running the commands. Once you open the docs folder, all the package and subpackage documentations can be found by opening the index.html file (located in the first level directory upon opening docs).

*NOTE** all the commands given are located within the alternatively proposed .bat and .sh files*