Please replace this paragraph with your Assignments 1 and 2 unchanged but including grading and comments. 2/2/2021 4:45 PM

# Assignment 4

Implement the next release of your term project or start a new one if necessary. You will incorporate—at a minimum—the *saving and retrieval of objects*, the use of *lambdas*, and the use of *streams*. You can substitute the use of JavaFX for one of these three concepts if you wish. Also, substitutions for any of these concepts by another advanced techniques are acceptable if you have already used them: please clear this with your facilitator.

The same instructions as in Assignment 3 apply to this completed Word document regarding the gray text, the 5 page limit, appendices, JUnit tests, and a ReadMe file.

## 4.1 SUMMARY DESCRIPTION THIS

*Evaluation criterion (i) applies*

One- or two-paragraph overall description of your proposed term project. Color red the parts changed from Assignment 2, if any.

Your response replaces this.

## 4.2 ADDITIONAL REQUIREMENTS (FEATURES) IMPLEMENTED IN THIS RELEASE

*Evaluation criterion (i) applies*

Title and one or two sentences per requirement. Don’t repeat requirements implemented for prior assignments unless they are necessary to provide context—in which case, make it clear they are old.

### 4.2.1 Your title replaces this. (NEW/OLD)

Your response replaces this.

### 4.2.2 Your title replaces this. (NEW/OLD)

Your response replaces this.

### 4.2…. more as needed

## 4.3 I/O SUPPORTING THE NEW REQUIREMENTS LISTED ABOVE

*Evaluation criterion (ii) applies*

Provide an example of input / output showing the new features of your application.

### Input

Your response replaces this.

### Input / Output

Your response replaces this.

## 4.4 YOUR DIRECTORY

Show a screenshot of your directory. Include your “.dat” files (where objects are written). This should include JUnit tests—class-by-class, and method-by-method, except for trivial and inappropriate ones.

Your response replaces this.

## 4.5 DESIGN

*Evaluation criterion (i) applies*

Supply a main use case, the class model, and the sequence diagram corresponding to the use case. These should be consistent. Indicate in red your class model where you applied object read, object write, streams and lambdas. Excellent assignments will typically include the use of Java FX (speak to your facilitator first if you wish to use alternative API’s) and event-driven programming.

Your response replaces this.

## 4.6 CODE SNIPPETS BOTH ITEMS HERE

*Evaluation criterion (iii) applies*

### 4.6.1 Code showing object read and write THIS

Your response replaces this.

### 4.6.2 Code Showing *stream*() and Lambdas (separate int0 4.5.3 and 4.5.4 if you wish) THIS

Your response replaces this.

## 4.7 YOUR CODE

*Evaluation criterion (iii) applies*

Unless your facilitator arranges another method, copy your Eclipse project to your file system, zip it, and attach it to your Blackboard response. Please contact your facilitator in advance if you require an exception.

Your response replaces this.

## 4.8 Evaluation

