[™] Final Programming Assignment: Course Listing System

```
COSC 211: Computer Science II August 2, 2022 Soobin Rho
```

What does this program do? The main purpose of this program, which is named CourseListingSystem.java, is to display all courses including who is teaching the course and which students are enrolled in it. In order to run it, type this into your terminal:

```
# Compile.
javac CourseListingSystem.java

# Run.
java CourseListingSystem
```

First, the program reads courseList.txt, facultlyList.txt, and studentList.txt. The program then prints each course information along with the corresponding faculty and students list. Here's how the output looks like:

```
dddd | dddd
```

Additional Functions: This program also has additional functions in case you want to test the program without having to input your own data. These functions create sample data for you:

```
# 1. Create 10 example courses.
# Write to `courseList.txt`
javac CourseList.java
java CourseList
# 2. Create 5 example faculty members.
# Write to `facultyList.txt`
javac FacultyList.java
java FacultyList
# 3. Create 20 example students.
# Write to `studentList.txt`
javac StudentList.java
java StudentList
# (Bonus). Create 10 example student employees.
          Write to staffList.txt
#
#
#
          Note that the class StudentEmployees
#
          is not used by the main program.
          This is an extra class.
javac StaffList.java
java StaffList
```

By the way, notice that every class has a ...Test.java file: CourseTest.java, FacultyTest.java, StudentTest.java, PersonTest.java, EmployeeTest.java, StaffTest.java, and StudentEmployeeTest.java.

End-users can ignore all ...Test.java files becuase they are just for debugging purposes. Basically, they just test and show examples of how to use setter and getter methods. For example, StudentTest.java shows how to set and get the attributes of the class *Student*, such as *Date expGradDate* and *int crTaken*.

Design Approach

Everything you need to know in order to run the program was shown above. This section is for those who want to get a better understanding of what happens behind the scene each time the program is run.

```
System.out.println("t");
```

[∞] How This Documentation was Made

This documentation was first written as a markdown file. Then, it was exported to a GitHub flavored html file with *grip*:

```
# Install grip.
pip3 install grip

# Install wkhtmltopdf
sudo dnf -y install wkhtmltopdf

# Convert README.md to html and then
# host to http://localhost:6419
grip README.md 6419

# Export the html to a pdf file.
wkhtmltopdf http://localhost:6419 README.pdf
```

Thank you, Professor Steinwand! We've learned a lot about Java thanks to you, and I'm looking forward to learn C++ with you next semester. Have a great rest of the summer!

--- End of Assignment ---