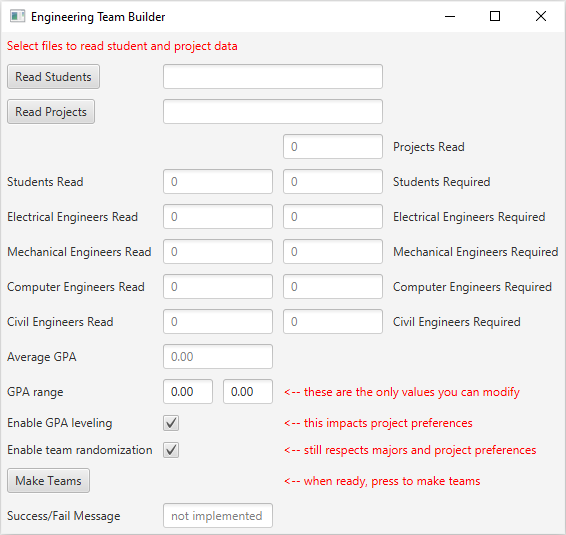
1. How to use the program!
   1. Execute code from Eclipse or JAR file (JAR file found in the “program” directory)

Hopefully you see the GUI (the red text is there to help you, but I will go into a little more detail here):



* 1. Press the “Read Students” button to read a VALID students file. The provided “Student Input File.xls” should work and is the expected format.
  2. Press the “Read Projects” button to read a VALID projects file. The provided “Project Input File.xls” should work and is the expected format.
  3. The next 7 rows of information **cannot** be directly modified by the GUI. These values are drawn from the input files you chose. Ideal scenario is that each number of “Read” is equal to it’s “Required” pair. Any differences **should not** prevent the teams from being built. But some students might be left out (if there are too many students) or some projects might not be completely filled (if there are too few students)
  4. GPA range can be adjusted within the GUI. Its values are defaulted to +/- 0.2 from the student body’s average GPA. There is no guarantee that teams will fall within this range. Please read code comments about the GPA leveling mechanic and its deficiencies.
  5. Checkboxes to enable/disable GPA leveling and team randomization. If you turn off randomization, the teams will always be the same. If you turn it on, the teams will be different each time (yet still respecting major and project preferences).
  6. Press “Make Teams” when you are ready to go. Save as a .xlsx please (.xls works, but you will be warned about the file type when you try to open it).
  7. The Success/Fail message was never implemented and will always show that
  8. There are many ways that this code can fail to produce good results. We have only written code and tested to ideal circumstances. The files we’ve provided should produce good output.

1. How to get this working in Eclipse
   1. Install JavaFX
      1. Help->Install New Software
      2. Add
         1. Name = Oxygen (or whatever you want to call it)
         2. Location = <http://download.eclipse.org/releases/oxygen>
      3. Select that repository from the “Work with” dropdown menu
      4. General Purpose Tools
      5. Select and install: e(fx)lipse
         1. I’m working from memory here, it might be called something else. But its name is pretty close to this
   2. FIX YOUR BUILD PATH
      1. The build path is currently set to my machine, and the paths are explicit. Unless you happen to have the same directory structure as me, you must change your build path.
      2. Right click on the project->Build Path->Configure Build Path
      3. delete everything with an explicit path (be sure not to remove JRE system library and Junit 5)
      4. Add External JARs
      5. Select everything in the “All needed libraries” directory
      6. Apply & close
   3. Run/debug main.java
   4. Run any test/\*Test.java you’d like (unfortunately, we could not get a test suite to work). Note there are no test files for Main.java, or the GUI MainWindow.java
   5. Let us know if there are problems, we will work with you to solve them