

CIT 594 – Homework 6

Custom Project – Step 1

Due – Dec 1, 2016 at 11.59pm

Step 1

For the Project's Proposal, you can define your own custom project. Each project must contain the following:

- At least 2 of the following:
 - Formal Design (CRC, Class diagrams, Sequence Diagrams)
 - Interfaces (Define and use)
 - Design Patterns
- At least 2 of the following:
 - Data Structures (at least three different kinds) – Arrays/Lists count as the same kind. Consider Hashsets, Graphs, Trees, etc.
 - Java Graphics
 - Multithreading
 - Advanced Topics (see below)

Advanced Java – we have covered a lot of the topics on data structures and design so far. This is an opportunity for you to learn something that you (and your team) are interested in. Examples of things include using something from the Java library not seen so far, learning and implementing new data structures, and using external libraries.

We also recommend using Real World Datasets in your projects. You have broadly two options: use public data for cities and the US (such as <http://www.data.gov> and <http://opendataphilly.org>); use public APIs (and the corresponding Java libraries) like Facebook, Twitter, etc. Take a look at the post on Piazza for suggestions.

Other than these constraints, you are free to choose a project of your liking.

You can choose to work in groups of up to 3 people. At this stage, you need to outline your project idea and your teammates. You need to submit a file with the following:

- Names of the members of the team (each team just needs to submit once)
- Project idea along with a short description
- A short work breakdown – who will do what?

Grading Criteria

This will be graded on a pass/fail basis.

If you do submit a satisfactory file, you will pass (for this step; the grading for step 2 will be detailed later) and either the TAs or I will give you feedback on your project.

Submission Instructions

Please submit a single file (.doc, or .txt, or .pdf) via canvas. Please make sure that your file contains the details of all the team members.