

Milestone 1:

Milestone 1 is a plan with some code.

Plan: You need to determine the classes you will use, the data structures that will hold the data, and start considering file structure for input and output. You should create your own sample data to augment any sample data I have provided for the project.

Code: You will create all of the classes you will need. You do not yet have to make them fully functional – just create the classes and maybe a constructor. The goal is to give yourself an outline of the work that has to be done.

You must schedule a 15 minute meeting with the TA to pass this off. Not everyone can pass this off on the day it's due, so please plan ahead. This is due 2/28/2020.

Milestone 2:

Milestone 2 has some working pieces and a fully-developed plan.

Fully-developed plan: Your plan must be in your code – create all the methods you will need and put in comments for what they will do. As you have time to work on the code, you will replace many of these comments with working code; or better yet, leave the comment in to describe what it does and add the working code to it!

Required working pieces: The user interface, file I/O, and some sample data in the proper format to be read in. The files you write out must also be able to be read back into the system in most cases, so make sure that works.

This is to be passed off to the GA. This is due 3/27/2020.

Project Submission:

You must upload compilable code to eCampus in a zip file. It will be checked with TurnItIn to make sure it is original code. If you are using an IDE, make sure it can compile on a plain, vanilla, boring computer without your chosen IDE, as that is what I will be using to grade your project. This must be turned in on 4/17/2020.

Project Presentation:

You must prepare Microsoft Powerpoint slides for a presentation. You do not need to describe the business case as all people working on the same project will go back-to-back. I will introduce the case, and then you will describe your solution. You will upload the presentation at the same time as your code, but in a different spot on eCampus. ***You will have about 13 minutes to present.***

Do not try to run a live demonstration. Bill Gates has demonstrated many times why that's a bad idea. And so has Elon Musk with his (in)famous hammer. Screen videos or screenshots of what you want to show us will be more reliable. I will run the code separately to make sure it really works. I know the file will get very large. Upload it if you can; if not, upload a link to it in your Google Drive, and then bring a thumb drive with your presentation on it to class for the presentations.

At a minimum, you must have one slide per required attribute that shows how you accomplished that attribute. For instance, RA1 is to read in a file (both from the commandline and from a menu). You would show us a demo of it working (videos in PowerPoint work well for this) and then show the code. You will talk us through the code briefly. Then you would move on to RA2, and so on. Be sure to tell us the assumptions you made, what you learned, or how you wish you had done it differently as you go through your presentation.

For RA4, tell us the data structure(s) you used, why it is the most appropriate for the situation you are using it, and any downfalls of that data structure. There's no real demonstration, but you should definitely show us the code of where you create the structure and load stuff in.

Your presentation will be used to largely determine your grade for the project. I will review the code before your presentation and reference it after, but what you say and demonstrate will significantly impact how I evaluate your work. So make sure it is good! I recommend business casual or business professional dress because of this.