

CS2124 Final Project

For the final project, write a program or application using the concepts we've covered in class. You may come up with your own idea, or use one of the ideas listed here.

Proposal - Due May 1st FRIDAY

The first step is to submit a project proposal to me. It should include a working title and description of what you hope your software will do. Outline your approach. Where will you start with the project? Which pieces will be the most challenging? What structs or classes do you expect to need? What's the minimum you hope to accomplish? If you blast through it, in what ways could you expand the project?

I will respond to your proposal on Slack. Be sure to check Slack regularly for a message from me. We will potentially go back and forth until it's fleshed out enough for you to move forward.

UML Diagram - Due May 8 FRIDAY

After your project proposal is approved, start working on a more formal design of your system. Submit a UML diagram that includes the names of each struct or class, the member variables and member functions. Don't forget to include the types of all parameters and variables, as well as the return types of the functions. For each variable/function, write a short (1 sentence) description of what it stores/does.

Do not wait for this to be approved before moving on to the next part! I will respond to the UML as quickly as I can! Alert me on Slack as soon as you've submitted this, so I can look at it!

Pseudocode - Due May 12 TUESDAY

Start to make the skeleton version of your project. Try to keep your project compiling the whole time, even though it won't work yet. Write how each function works in pseudocode as comments inside the function.

Test Plan - Due May 15 FRIDAY

Write test cases for your functions. (There will be a video about this). For each (public) function, think about how you want it to work, and how it could possibly break.

Revised Psuedocode - Due May 19 TUESDAY

If I made suggestions on your psuedocode, be sure to fix them and resubmit by May 19. You can start programming simultaneously.

Demo - Due May 26 TUESDAY

Make a video demoing your project! Show it off! Talk about your approach, your architecture, any issues you faced along the way, and what you learned from them. You could write this up as an essay if you prefer.

Final Version - Due May 29 FRIDAY

Be sure to submit your full project! Include screenshots or console output.