Final Project Proposal

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A. Do you have a partner? If so, who is it?

I do **not** have a partner.

B. Briefly describe your project, its purpose, what input it uses (if any), and what output it produces.

The goal is to implement a multi-threaded **personal journal** that maintains entries such as to-do list items, calendar events and personal notes. Each item the journal maintains can be thought of as a “task”.

Each task produced/entered/created by the user will be implemented as a thread.

Each task will report to a **server** that will maintain all tasks and update them to various clients (say for example, the user has a cell phone and a laptop and subsequently, the server sends a maintained copy of the journal to both the cell phone and the journal).

The server can [ideally] manage more than one user’s journal entries (for example, it can manage a whole class of students and their personal entries) but handling more than one user will not be a priority for the project.

The **journal client** will communicate with the **server program** using some sort of communication method (RESTful API, ssh, port/socket communication, etc.).

C. Which of the allowed topics does it cover (process management, etc.)? Explain.

This project mainly covers **parallel computing** with regards to creating threads to handle each task the client is asked to fulfill. Although not listed in the general instructions, this project will also cover client/server interaction as explained in the course, but the mechanism in which the two programs communicate is still TBD.

D. Will you use any specialized code written by someone else? If so, explain. Note that software from other sources can be used but does not count toward the requirements.

As of now, no code specialized/prewritten code is in the works, but there will be extensive use of posix threads and possibly posix socket/port and RESTful API’s for implementation. This will only involve calling methods—not copying their implementation and calling it mine.

If there is time, I might try to get either GTK or openGL involved to make something pretty, but this is also not a priority for the project.

E. Will you be using the Case HPCC?

Nope. Looks cool though.

