

Assignment 1: Project Proposal

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Description

For our final project, our group will create a command-line messenger that will allow different users to communicate with each other. Users will be able to login to their own account, view their chat history, create/join chat rooms, and communicate with other users.

Problem & Motivation

The problem that our network system tries to resolve is that it allows users to instantly communicate with others without the use of a graphical user interface. Our motivation is to create a program that is lightweight and simple to use.

Objectives

The objectives of our network system are:

- To allow multiple clients communicate with a server concurrently
- To have real-time updates to all clients
- To allow users to have their own account and have access to their chat history

Plan

To meet our objectives, we plan to:

- Use a modified SelectServer program for concurrent communication and real time updates
- Use a database to keep track of usernames, passwords, and chat history

Feasibility

The project is highly feasible within the timeline.

Work Distribution

Mainly, all group members will be working together throughout the development of the project. However, tasks, such as implementation of certain functionalities, will be delegated by group as they arise.

Programming Languages

The programming languages that we will use are Java to implement the server and client networking and SQL to implement a database that the program can use.