

CS 677 S21 - Lab 1

Milestone 1

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High level design decisions:

We have used python3 for our system implementation. We use sockets to establish the connection between nodes and sending and receiving the messages. For the first milestone, the process of our program is simple. The seller is running as a server on a specific IP address (local host) and the buyer tries to announce items that he/she wishes to buy. As the first milestone is about running the program on the same machine and we have only two nodes, the IP address for both nodes is set to be "127.0.0.1".

We have hard coded the product name in the first and second test cases. For the third test case, in a while loop, a random product is being assigned to seller and buyer and for each assignment, the result is being printed separately for each transaction. Our program prints the number of milliseconds that each transaction takes to finish.

Simplified tasks:

We do not have the topology creation task. This is because there are only two nodes in the network. In addition, the neighbors of a node are clear and so we do not have the implementation for this task too.