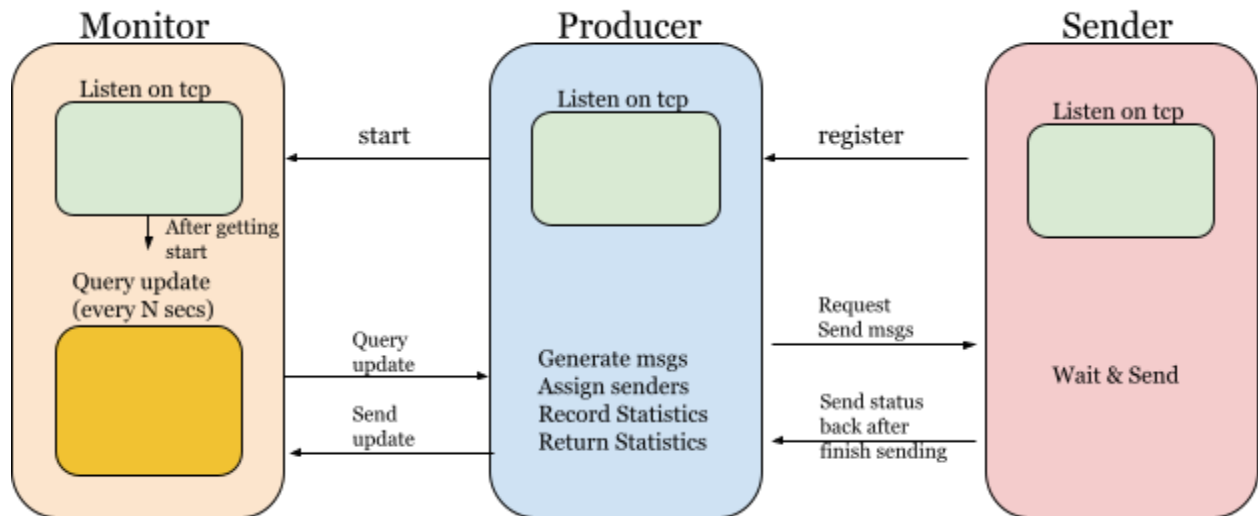# SMS Alert System

Producer

The producer will act like a system manager. It will listen for sender registration to record the available senders and ask the monitor to start monitoring by sending a start msg. It will first generate a bunch of messages with corresponding phone numbers, then match the available sender with the message. A message sending request will be sent to the sender. After the sender finishes, the producer will record the statistics of the message sending result. When it gets a monitor status request every N secs, it will send back the current recorded statistics.

Sender

It will first register itself with the Producer, then listen for the producer requests. After getting the sending request and finishing sending the messages, it will send back the sending time it used as well as the success status.

Monitor

It will wait for the producer to tell it to start. After start, it will send a request to the Producer every N secs for current statistics.