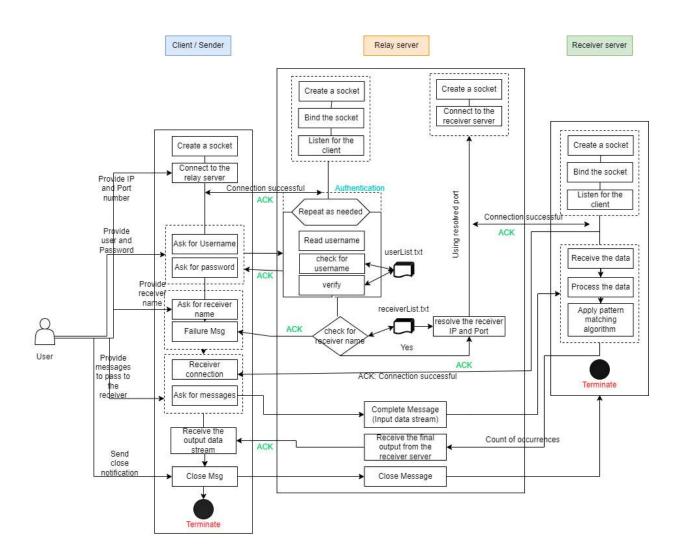
CSCI 5531: Advanced Operating System Distributed Message Relay System

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Design:



Description:

- 1. The Distributed system we are building consists of 3 components:
 - a. Sender
 - b. Relay server (Intermediate server)
 - c. Receiver
- 2. We are using sockets as an interface for data transmission between each component.
- 3. The above design diagram demonstrates the various events occurring at each level during the communication process.
- 4. At each level, for every request sent, we are getting an acknowledgment (ack), and based on the type of ack the next steps are being followed.
- 5. These are some of the key events occurring during the data transmission
 - a. Connectivity between sender relay and relay receiver via sockets
 - b. Sender authentication
 - c. Sender message transmission
 - d. Receiver utilizing the sender's data.
- 6. By sending a close message to the receiver, the sender puts the communication process to an end.