Computer Problem Solving II Professor Kennedy

Project Team 3 March 26, 2018

Server:

* Print events to console
* Inbound Data processing
  + Write incoming emails to the file of the user
  + Log user not found emails and send failure email to sender
  + Relay SMTP inbound data to other servers if necessary
* User initiated read requests (refreshing mailbox)
  + Not over SMTP – other format
  + We need a delimitator for separating
* Manage user mailboxes
  + Each user can have their own file
  + So, when you create the user, it should create the file
  + Name @ip-address
  + Don’t create a DNS zone for the project
  + Just IP address
  + Emails are downloaded by the user but then the user’s individual file is deleted
    - All emails sent and received are stored in full in a common log file
    - We need to consider how to download and access the user’s mailbox file to the client and how to handle additions
      * If the user refreshes, gets emails, then refreshes again with no new emails
  + Fetch model – not push
* Networking
* Threading
* SMTP out
* SMTP in
* Encryption
  + Work with other teams
* Work with other teams on:
  + Relaying messages
  + Logging to other servers with OUR client
  + Encryption (same method)
    - Be able to decrypt any message with any client

Client:

* UI
* Networking to server
* SMTP out
* Inbound fetch