

NOTE: This document is a work in progress and just the bare bones of understanding the problem and what a solution may look like

Questions:

- Should I validate that an email address exists? Or only that it is in the right format?
- How do we determine between a company domain and an individual? Are individuals people who don't have anyone else within their domain? If a new person with the same domain is created when there was previously only one, should we create a new company with that domain name and categorize them that way?
- Do individuals who are the sole entity of their domain simply have no company? For example person@compA.com is the only instance of compA. Does this mean that they don't get put under company recipients for compA, and therefore only count as an email recipient?
- Can I assume that any of the added instances, whether company or individual cannot be completely deleted from the space?

Assumptions:

- Recipients in the available list will have a boolean marker of false
- Recipients in the selected will have a boolean marker of true
- There will be a list by domain and a list by individual emails
- Available emails cannot also be selected emails

Plan:

- Separate the data by domain and by isSelected
 - If isSelected = true. Put that email under its domain in the selected recipients list
 - If false put them under their domain in the available list
 - This switching will be how we manage who is in what list

Functions:

- IsValidEmail
 - Checks the format of the input strings to make sure that they are in valid email format
- IdentifyDomain
 - Takes the input and splits the string into the domain name and the beginning portion. Puts domain into its own separate array so that it can be displayed/used for categorization
- AddRecipient
 - If the email entered in the search box is not in the list of available and the email passes validation, add it to the list of available emails. Create a subheading if the domain is a completely new domain

Note: SelectRecipient and RemoveRecipient are in charge of which lists the emails display

- SelectRecipient

- Selects the recipients from available list and then on ADD button click, changes the boolean from false to true
- RemoveRecipient
 - Selects the recipients from selected list and then on REMOVE button click, changes the boolean from true to false