Problem Definition:

Create a website for groups to communicate, through group chat, file sharing, and calendar software.

Users:

1. General User

* Basic user of the site

1. Group Admin

* Basic user of the site who has created a group or was assigned admin privileges to a group

Features:

1. **General User Features:**

* Create a Group
* Leave a Group
* Login/signup/recover forgotten password
* Group members
  + View group members
* Group Files
  + Add/Copy/View/Edit all group Files
  + Edit/Delete owned group Files
* Group Calendar
  + Add/View all group calendar entries
  + Edit/Delete owned group calendar entries
* Group Chat
  + Add/View all group chat
  + Delete/Edit owned group chat
* Personal Files
  + Add/Delete/Edit/Copy/View all files
* Personal Calendar
  + Add/Delete/Edit/View all files
* Personal Profile
  + Delete Account
  + logout
  + Edit profile/view profiles
    - Email
    - Phone
    - Picture
    - Name
    - Username (alias)

* Notifications
  + One each for chat, calender and files

1. **Group Admin Features:**

* All features of General User
* Group Admins
  + Add Admins
  + Remove own admin privilege
* Group members
  + Add/Delete group members
* Group Files
  + Delete all group Files
* Group Calendar
  + Delete/Edit all group calendar entries
* Group Chat
  + Delete all group chat

Qualities: We only need the four discussed in class.

* User friendliness
  + This is needed so users are able to use the website without frustration
  + This means the user interface should have an intuitive design and helpful prompt should be given to assist users when needed
* Correctness
  + messages and files need to be correct so there is no confusion in the group
* Robustness
  + Since the system is taking input from the user, no user input should break the system
* Security
  + Since the system will store personal information and passwords this information needs to be secure
  + Also files and other data needs to be secure from other groups using the site
* Reliability
  + Groups will need files to be there at all times.
  + Since its communication oriented it needs to be reliable
* Performance
  + In order to ensure the usability of the software file uploading and downloading must be fast
* Maintenance
  + For fixing bugs and errors and adding new features