

☐ **Super Users can:**

- ☐ Update Memberships
- ☐ Maintain a list of taboo words
- ☐ unlock locked documents
- ☐ process complaints about ou's
- ☐ have all privileges reserved for ou's inside any group

☐ **Ordinary Users can:**

- ☐ Create New documents- They own the documents they create.
- ☐ Invite other ou's to update documents they own.
- ☐ Decide whether the document is:
  - ☐ open to the public (can be seen by everyone)
  - ☐ restricted (can only be viewed as read-only by gu's and edited by ou's)
  - ☐ shared (viewed/ edited by ou's who are invited)
  - ☐ private
- ☐ accept/deny invitation(s) placed by other ou's for their specific documents
- ☐ lock a shared document for updating (only one ou can lock a document successfully and system should indicate which ou is updating the document)
- ☐ update a successfully locked document & assign a unique version sequence number & remember who made the update & when the update was made
- ☐ unlock a shared document locked by him/herself
- ☐ file complaints in two ways:
  - ☐ to the owner of a document about another ou's update
  - ☐ to the a SuperUser about the owner of the documents
- ☐ if they own a document, they should deal with complaints filed by other ou's
- ☐ remove ou's who were invited before.
- ☐ unlock locked documents that s/he owns that is being updated by others (unlock documents locked by others as long as you are the owner)
- ☐ search own files based on keyword
- ☐ search information about other ou's based on name and/or interests.
- ☐ have all privileges for gu's

☐ **Guest users can:**

- ☐ read open documents
- ☐ retrieve old versions of open documents
- ☐ retrieve complaints about old versions of documents
- ☐ send suggestions to Super Users about taboo words.
- ☐ apply to be an ordinary user, that will be confirmed or rejected by su (in application, name and technical interests are submitted)

☐ **Constraints**

- ☐ **only one current version of any document exists as current**
- ☐ for simplicity there is only one word for each line in all documents
- ☐ only the editing commands are saved for older versions with three possible actions
  - ☐ add
  - ☐ delete
  - ☐ update (replaces a word)

\* **Example:** For instance, if the file *doc<sub>1</sub>.txt* contains one line "the", and *doc<sub>2</sub>.txt* contains three lines "welcome / n the / n world / n", then your system only saves *doc<sub>2</sub>.txt*, *doc<sub>1</sub>.history* saves the commands "delete 1; delete 3" which changes *doc<sub>2</sub>.txt* into *doc<sub>1</sub>.txt*. Your system generates the history command file based on the difference.

- ☐ retrieving old versions should be done by system based on current version and sequence of history files.
- ☐ words on taboo list (maintained by SU) are replaced by UNK by the system
  - ☐ users who use words on taboo list are automatically warned **"user update the document next time you log into the system"**
  - ☐ until update is made by user all other activities are blocked for that user.