**FUNCTIONAL REQUIREMENTS**

- Read a file from the database that has all user data, friends list, pending friend list and keep in a hash table about 1000 arrays ( If there are the same position it will keep in the tree. ).

- User data have E-mail, password, name, birthday, phone number, gender, status, friends and pending request.

- In status will include text, owner status, time, and all comments.

- In comment will include text, time, owner.

- Connect user that are friends together and linked pending request into user data.

- If there isn’t any database file, create new file.

- The system must allow the user to register, sign in or exit program.

- If the user signs up, get input and validate information correct or not. If finished register, add to the hash table.

- If user signs in, get E-mail and Password from the user. Then send E-mail to the hash function and search in the hash table. If found user data, let user login. If not, print not found a message.

- (1) When user login program will show suggest friend by see friend of friend relation. If the user does not have any friend, the program will random in a hash table to suggest a friend.

- Then print how many friends pending request are there.

- After display suggests friend. Go through friend list, print one friend’s status and all comment.

- Get command from user, there are command as below

* + ‘/c <text>’ Comment current status
  + ‘/s <text>’ Update new status to Simple Facebook
  + ‘/home’ Go to first status (It work like a button refresh)
  + ‘/help’ Show all command and display some

instruction

* + ‘/next’ Go to next status
  + ‘/pending’ Go to see who are request to be your friend in sample facebook
  + ‘/profile’ See all user’s information.
  + ‘/logout’ Log out from facebook
  + ‘/find <e-mail>’ Find user in simple facebook

After command ‘/pending’ user can use only this command

* + ‘/acceptf’ Accept to be friend
  + ‘/denyf’ Deny to be friend

Or ‘/home’

After search friend, user can use only this command

* + ‘/addfriend’ Add friend that person to see his news
  + ‘/delfriend’ Delete that friend

Or ‘/home’

- For ‘/home’, It work like a refresh button in Real Facebook. It will random a new status to show to user and start at (1) again.

- For ‘/help’, will show to user that first-time login ( and suggest this command when user input wrong command ).

- For ‘/next’, It will random friends to print status.

- For ‘/pending’, It will show amount of friend request and show only one user and some data ( name, gender, age ). Then asked to accept or deny friends. But you can’t ignore to see next friend pending ( You have to decide to be friend or not that user. Otherwise, ignore to decide and go back to home . ).

- When log out it will go back to ask register or sign in again.

- When find friends, user have to find by E-mail only. If found, print that user profile and then program will check that both users are friend or not. If not, programd will allow user to use only command ‘/addfriend’. But if yes, program will allow user to use only command ‘/delfriend’. Otherwise, user have to use ‘/home’.

**OPTIONAL**

- Let user to like all status and print amount of a person who like that status.

- Let user to change name, change password or delete user after using command ‘/setting’.

- Display all user status that user have been post.

- After search friend’s, user can see all that friend’s status.

- Can ignore to see next pending friend.

- Print amount of person who comments that status.

- Make hash table from constant number to dependent on amount of data.