README
MyDropbox

April 30, 2015

1 How to run

1. Open the Makefile and replace the "localhost" with IP of server

2. Writing "make server" in terminal shall run the server.

3. Writing "make client" in terminal shall run the client.

2 Features

1. Secure Connection
Used SSL(Secure Socket Layer) for secure connection between client and server.

2. GUI interface for client
A dedicated GUI interface has been provided for the client. It tentatively includes following features :

   (a) User authentication using name and password
   (b) Change password
   (c) Upload, download, rename and delete the files
   (d) Share files with other users
   (e) Logout

3. App folder on client side
A folder maintained on the client side where files downloaded from the server will be stored.

4. User database
An Sqlite database is stored on the server side that contains information about all the registered users.

3 Basic working

1. Creating an account
   To create a new account, the person has to supply a username, password ,email and name. If the usernsme is unique then a account is created and entry of user is made in the database on the server side.

2. Logging in
   Once you have an account you can easily login using your username and password once you are connected to the server port.

3. Uploading file
   To upload a file from your account to the server , simply press the upload button given on top and select the file from anywhere on your machine. Hover over the buttons to see which button does what.

4. Downloading file
   To download a file that you have uploaded before. Simply select it from the ui list and press download button.

5. Sharing file
   Simply select a file to share and press the share button fom above. Now enter the username of the person with whom you want to share file.

6. Renaming or Deleting file or folders
   Select file or folder from the ui list and press rename or delete button to carry out the required process. The contents at the server will be modified as a result.

   Using this program a client will be able to access his files from different devices(running on linux). The data will be synched with the server. Whenever the client opens his file it will be downloaded as a temp file to the app folder,otherwise the client can download it permanently. Whenever the client makes changes to the file and uploads it, 'Dirty Write' is used to store the modified file in a space efficient way.