Introduction to Software Engineering
Easy Cloud

Rishabh Nigam(10598) Pankaj Prateek(10497)

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1 Introduction

Easy Cloud serves as a replacement to the paid services provided by Cloud Storage Services such as Dropbox, Google and Skydrive. We though this framework want to provide a larger amount of data being accessible on the cloud. The initial motive to work on this problem has been the work of some of the people implementing hacky prototype of the model. But as there isnt a system which is in use as of now, the idea is to make it in a more robust and scalable way. Easy Cloud provides you a drive on your local disk which is synced to one/more of the online storage sites. It syncs your files to Dropbox, Google Drive and Skydrive. The target audience for this project includes all the people who are using cloud storage services. We have built this app as a Desktop app, and it has been thoroughly tested on linux only. We plan to extend the support to windows in upcoming releases.

2 Functionality

The app on installation asks the user to create a folder named "EasyCloud" and put the files it wants to sync in this folder only. There needs to be a same named folder in the cloud locations in Dropbox, google drive, and skydrive. There is a GUI which allows user to choose some set of sync settings which are as follows.

1. Upload Location. The following options are available.
   - Split: It stores the file in exactly on of the place on the cloud. This is decided by an algorithm which is described in later sections.
   - All: This simultaneously updates the file to all the places on the cloud which are authenticated by the user
   - Only to Dropbox.
   - Only to SkyDrive.
   - Only to GoogleDrive.

2. Sync:
   - A sync button is provided on clicking which the files in the local drive are synced to the files on the cloud
   - A sync is also carried out every 15 minutes

3. Authentication: There are 3 buttons provided in the GUI to authenticate each of Dropbox, GoogleDrive and SkyDrive repectively. On clicking those button instructions are showed to authenticate. The user needs to go to the link shown on any browser and get the auth token from there and provide it back in the GUI.

Data Management Upload files Download files Allows the user to select a file from his system and upload it on the site. Download a file from cloud storage service which is already uploaded on the site. Software Requirements Specification for Centralized Cloud Storage Page 3 Browse file list See the actual location of the file Save a particular file in a specific CSS. Browse the complete file list along with directory structure. Allows the user to see where the file is actually stored and links to the storage space. Allows user to select a specific cloud service to store a file.

3   References

Dropbox: https://www.dropbox.com/developers
Google Drive: https://developers.google.com/drive/
SkyDrive: http://msdn.microsoft.com/en-us/library/live/hh826521.aspx