This document aims to show readers the steps to follow so as to have an integration between R and Dropbox such that users can Read and Write files in Dropbox all inside RStudio environment.

Thanks Karthik for this wonderful package of rdrop2, which allows easily Dropbox interface with R. See https://github.com/karthik/rdrop2

Step 1: Sign up an account with Dropbox at https://www.dropbox.com/

Step 2: Set working directory on the files which you need to access, either read or write, for example:

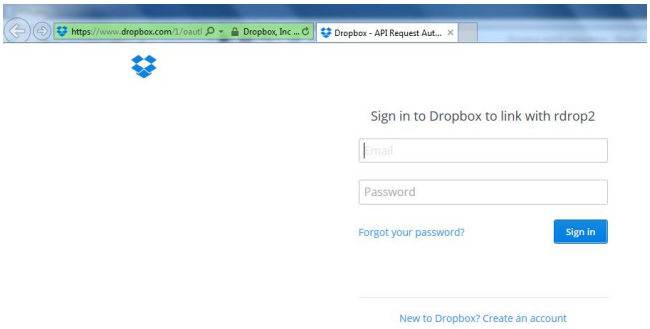
```
> setwd("C:/Users/tanthiamhuat/Dropbox/Apps/OnlineSurvey")
```

Step 3: Install the required package and load the library

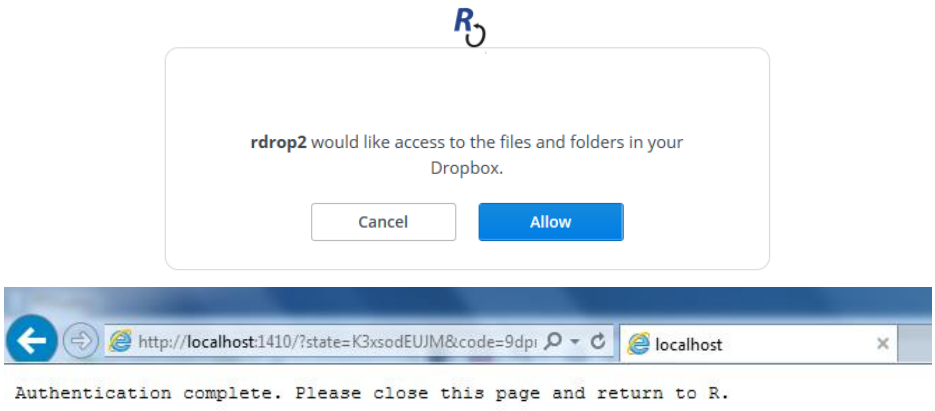
```
> install.packages("rdrop2")
> library(rdrop2)
```

Step 4: Authentication for Dropbox

```
> drop_auth()
Waiting for authentication in browser...
Press Esc/Ctrl + C to abort
```



Enter your email and password on the above screen to **Sign in**. After which you would see the screen below and click **Allow** button.




```
Authentication complete.
```

Step 5: Read and Write of files from Dropbox

```
> drop_dir('Public/Apps/OnlineSurvey')
Source: local data frame [2 x 5]

                              path mime_type   root bytes                    modified
1 /public/apps/onlinesurvey/BUS.csv text/csv dropbox 49 Wed,29 Apr 2015 01:16:07 +0000
2 /public/apps/onlinesurvey/MRT.csv text/csv dropbox 47 Wed,29 Apr 2015 01:16:07 +0000
```

We see that there are two files contained in the directory OnlineSurvey. We would read from and write to the MRT.csv file.

```
> df <- drop_read_csv("Apps/OnlineSurvey/MRT.csv") # read a csv file
C:\Users\TANTHI~1\AppData\Local\Temp\Rtmpkngv3s/MRT.csv on disk 0.047 KB
> df
   MRT
1   20
2   40
3   20
4   40
5   20
6   60
7   20
8   20
9   40
10  60
11  80
```

Above read from the MRT.csv file and display its contents.

```
> df <- rbind(df, 90)  # insert new value to last row of df
> df
   MRT
1   20
2   40
3   20
4   40
5   20
6   60
7   20
8   20
9   40
10  60
11  80
12  90
```

Above insert a new value of 90 to the last row of the data frame. We next write the modified data frame to the file MRT.csv and upload it.

```
> write.csv(df, "MRT.csv")
> drop_upload("MRT.csv")
File MRT.csv uploaded successfully
```

And we read back the MRT.csv file and see that the content of last value of 90 is correctly written to it.

```
> df <- drop_read_csv("Apps/OnlineSurvey/MRT.csv") # read a csv file
C:\Users\TANTHI~1\AppData\Local\Temp\Rtmpkngv3s/MRT.csv on disk 0.109 KB
> df
    X MRT
1   1  20
2   2  40
3   3  20
4   4  40
5   5  20
6   6  60
7   7  20
8   8  20
9   9  40
10 10  60
11 11  80
12 12  90
```