GDrive-Test

Rest Services for Google Drive API

Introduction:

The GDrive-Test API provides rest services to perform operation in Google Drive using java Drive API

Frequently used terminology:

- ➢ **file** in the rest service means the file that we are uploading or performing operation on
- ➢ **fileId** in the rest service means, in google drive each and every file has unique id and the fileid is used to access the file and perform operation on it
- ➢ **folderId** in the rest service means, if we want to access files in subfolder, or upload files to subfolder we use the unique id of the folder

Technologies Used:

- Programming language: Java
- Server: Tomcat 8.0
- Rest Services framework: Spring MVC
- Rest service testing : Postman

Rest Services:

/listfiles :

listfiles is API url to list files in the google drive.

> Ex.: http://localhost:8080/GDrive-Test/list
> http://395e2231.ngrok.io/GDrive-Test/list

/folderlist:

folderlist is API url to list files in a folder, it takes <folderid> as a argument to list files in the given folderid.

> Ex.: http://localhost:8080/GDrive-Test/folderlist?folderId=1NvdjiXA-ugvdlhgEcoIfuQvK54mKx3pr
> http://395e2231.ngrok.io/GDrive-Test/folderlist?folderId=1NvdjiXA-ugvdlhgEcoIfuQvK54mKx3pr

/exportdownload:

exportdownload is API url to export google docs files to required format and download files, it takes file id as argument and file should be a google doc file.

> Ex.: http://localhost:8080/GDrive-Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGJtW1V0_COfPxTG4
> http://395e2231.ngrok.io/GDrive-Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGJtW1V0_COfPxTG4

/download:

download is API url to download file from the google drive, it takes <fileId> as argument.

> Ex. http://localhost:8080/GDrive-Test/download?fileId=1cJOTpJ6CzMVWKiLLY4hpD5q4uJ6R1sus
> http://395e2231.ngrok.io/GDrive-Test/download?fileId=1cJOTpJ6CzMVWKiLLY4hpD5q4uJ6R1sus

/uploadfile:

Uploadfile is API url to upload files to root of google drive, it takes <file> as MultiPartfile as input.

> Ex. http://localhost:8080/GDrive-Test/uploadfile

/uploadtofolder

Uploadtofolder is API url to upload files to sub folder in google drive, this takes <file>,<folderId> as arguments and uploads file to given folderId

Ex. http://localhost:8080/GDrive-Test/uploadtofolder
http://395e2231.ngrok.io/GDrive-Test/uploadtofolder

Design issues faced:

Faced problem in downloading file, uploaded via GDrive-Test API

<u>Reason</u>: The webContentLink value is returning null for uploaded files.

<u>Solution</u>: The file while uploading via API, the set fields should have webContentLink, if we upload with default configuration the webContentLink would remain null

Rest testing screenshots:

Files List:

http://395e2231.ngrok.io/GDrive-Test/list
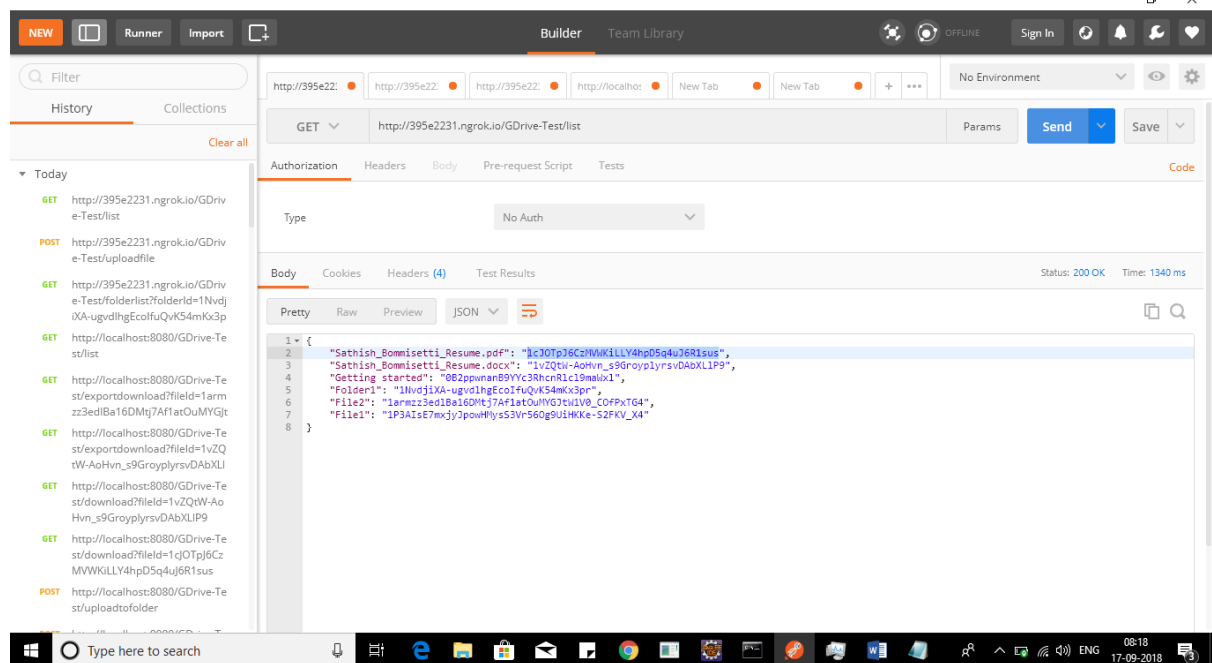
Files in folder:
http://395e2231.ngrok.io/GDrive-Test/folderlist?folderId=1NvdjiXA-ugvdlhgEcoIfuQvK54mKx3pr
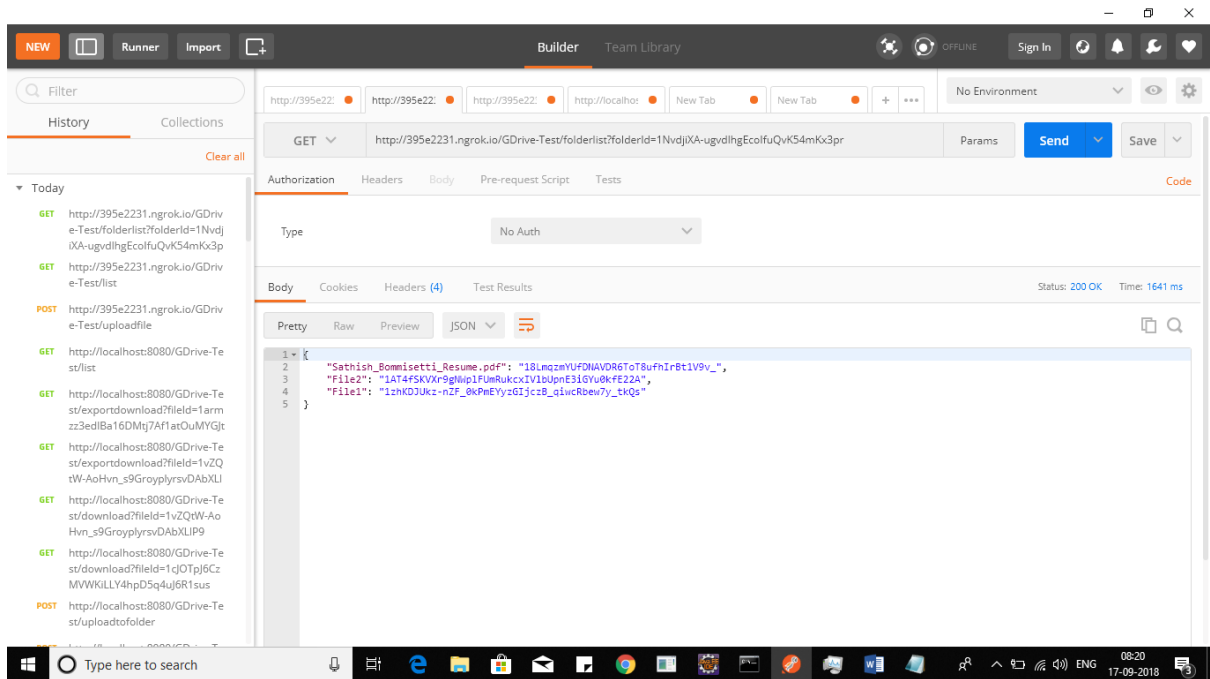
Upload Files:

http://395e2231.ngrok.io/GDrive-Test/uploadfile
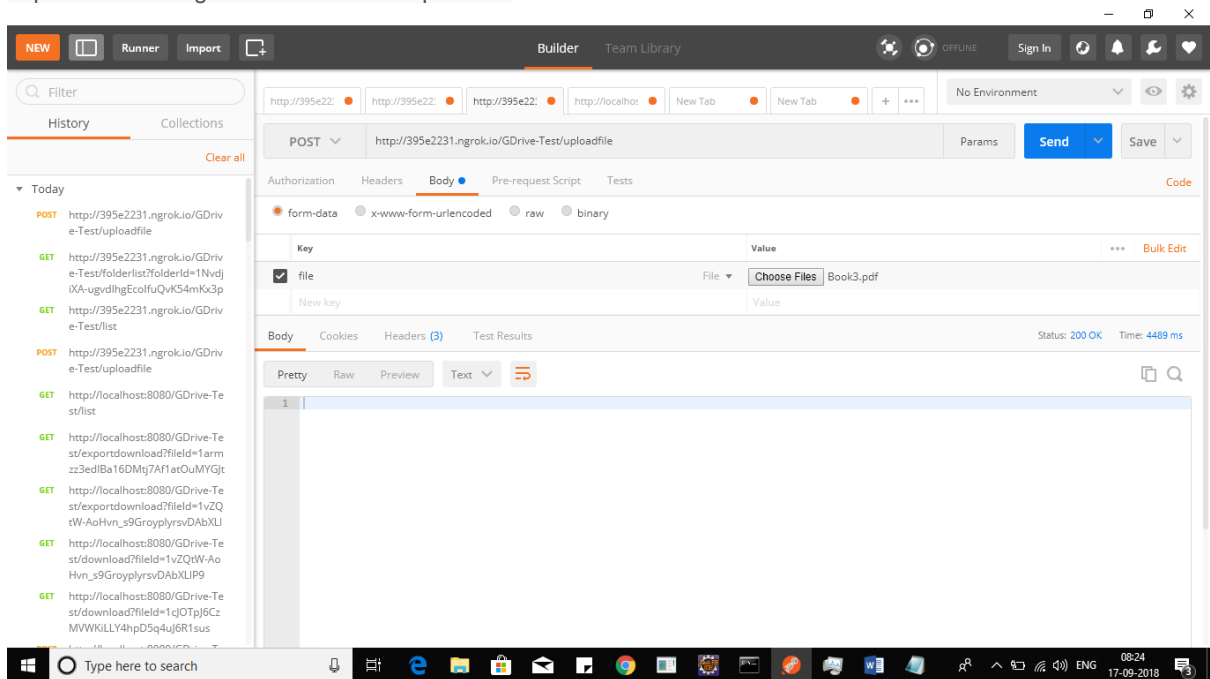
Uploaded file in google drive
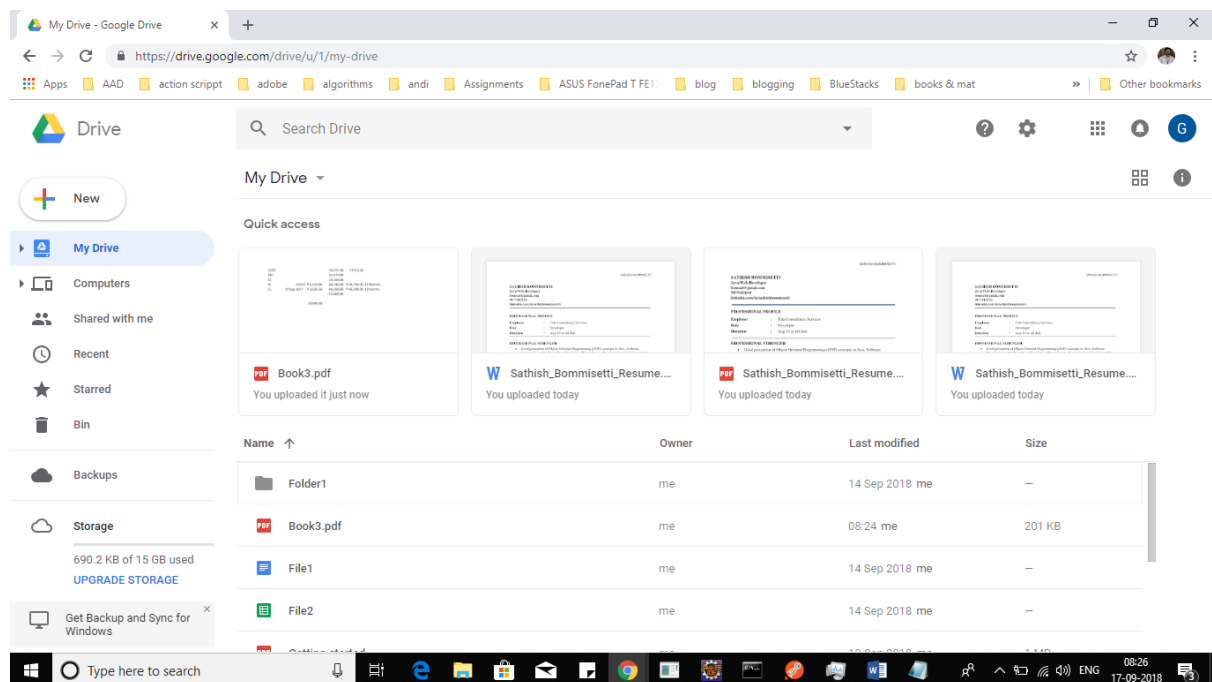
Upload to Folder:
http://localhost:8080/GDrive-Test/uploadtofolder
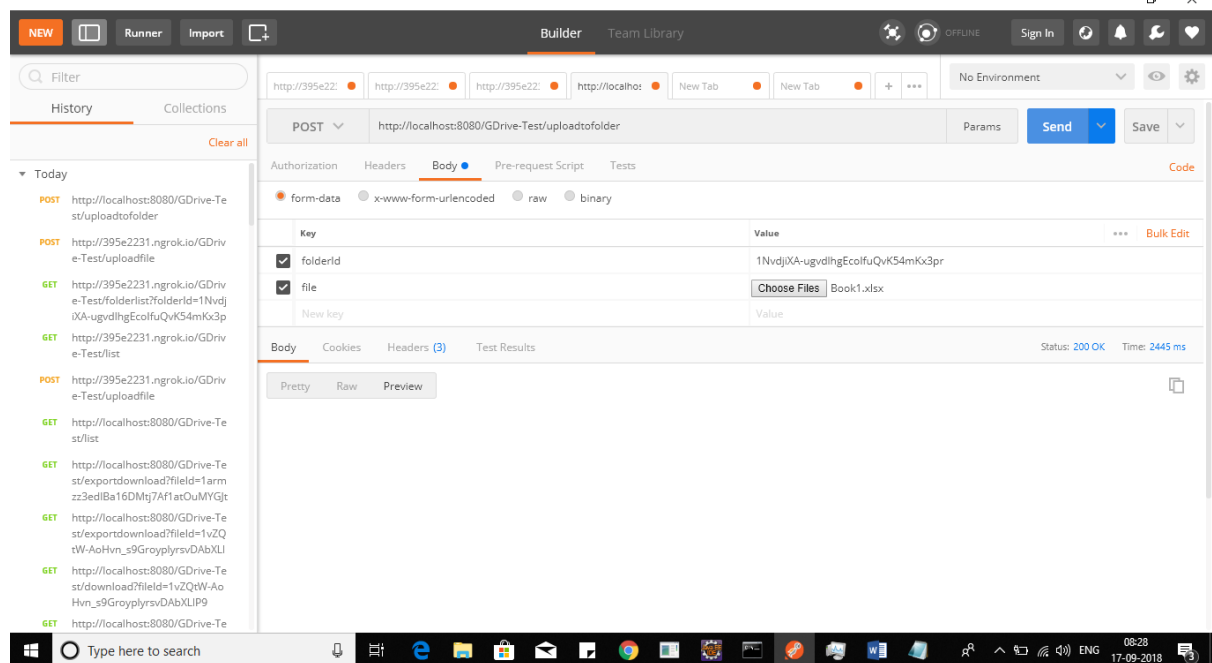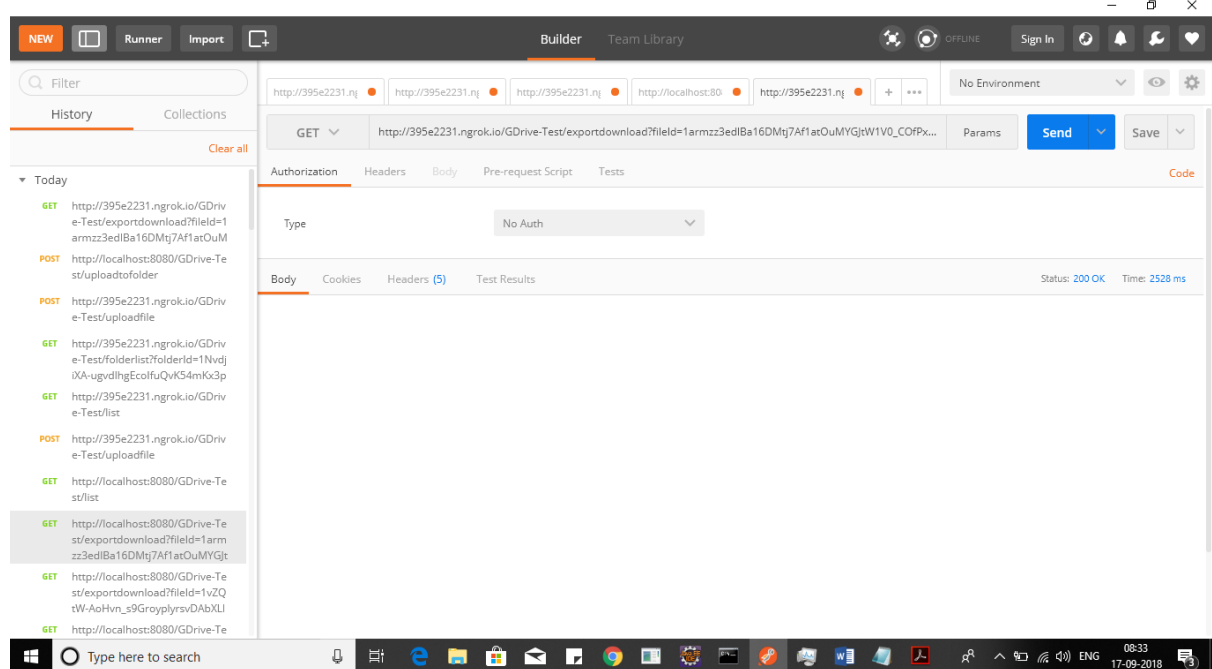
Uploaded file in google drive folder
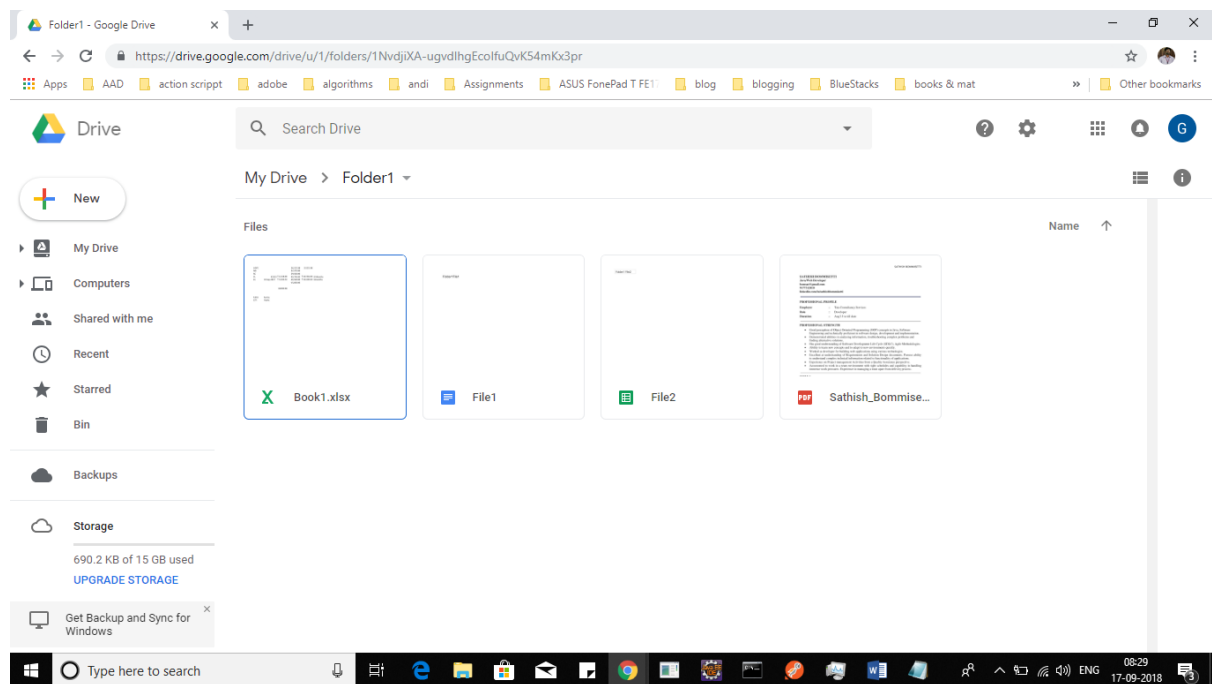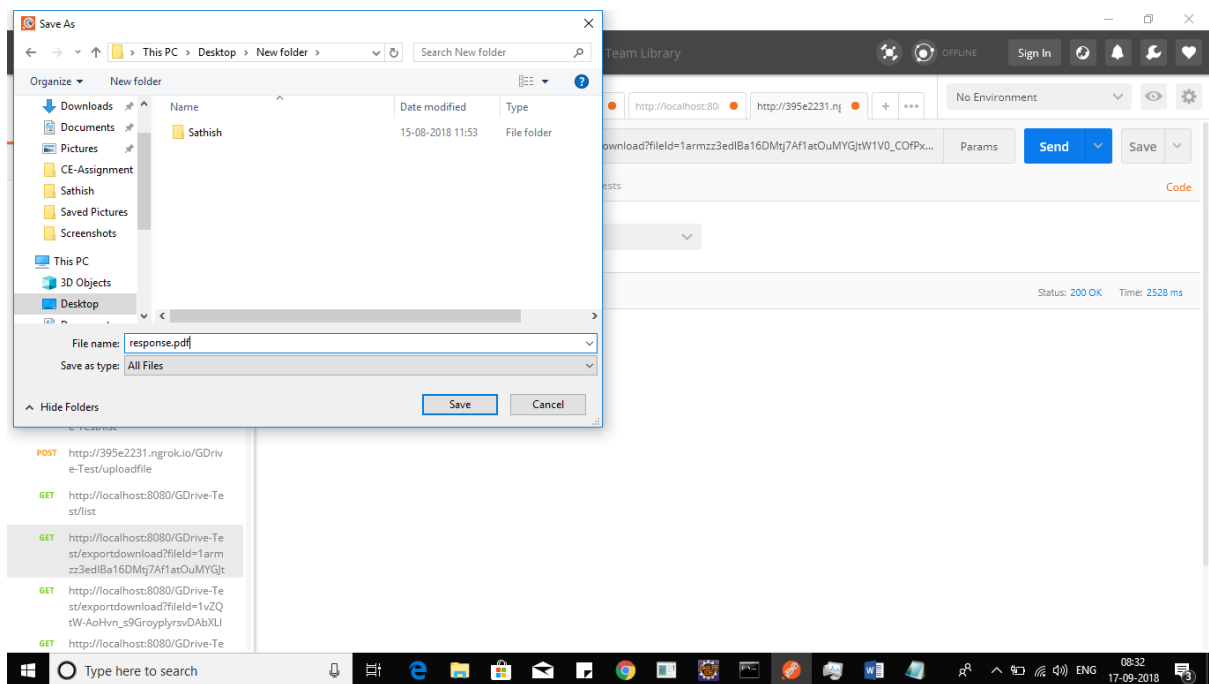

Export Download File:
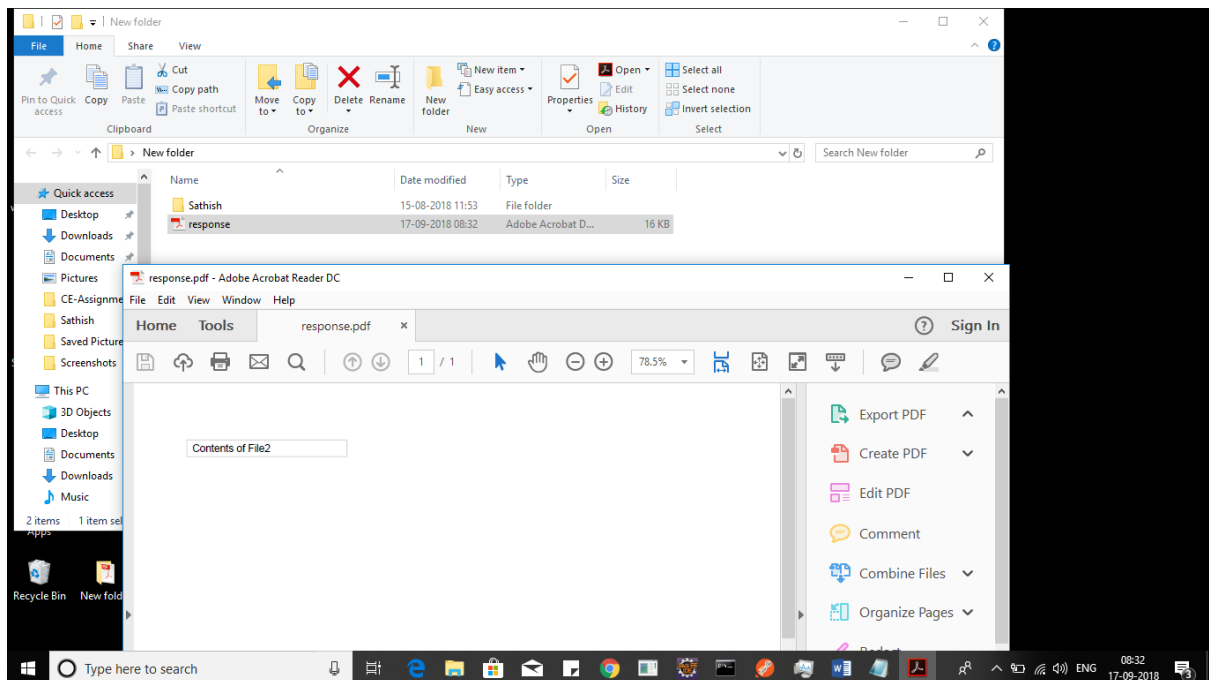http://395e2231.ngrok.io/GDrive-Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGJtW1V0_COfPxTG4

Save file prompt while downloading

Saved file and contents

Direct download all files:

http://395e2231.ngrok.io/GDrive-Test/download?fileId=1cJOTpJ6CzMVWKiLLY4hpD5q4uJ6R1sus

Facing temporarily file moved issue while directly downloading file.