

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-ugvdlhgEcolfuQvK54mKx3pr`
`http://395e2231.ngrok.io/GDrive-Test/folderlist?folderId=1NvdjiXA-ugvdlhgEcolfuQvK54mKx3pr`

/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`

`http://395e2231.ngrok.io/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

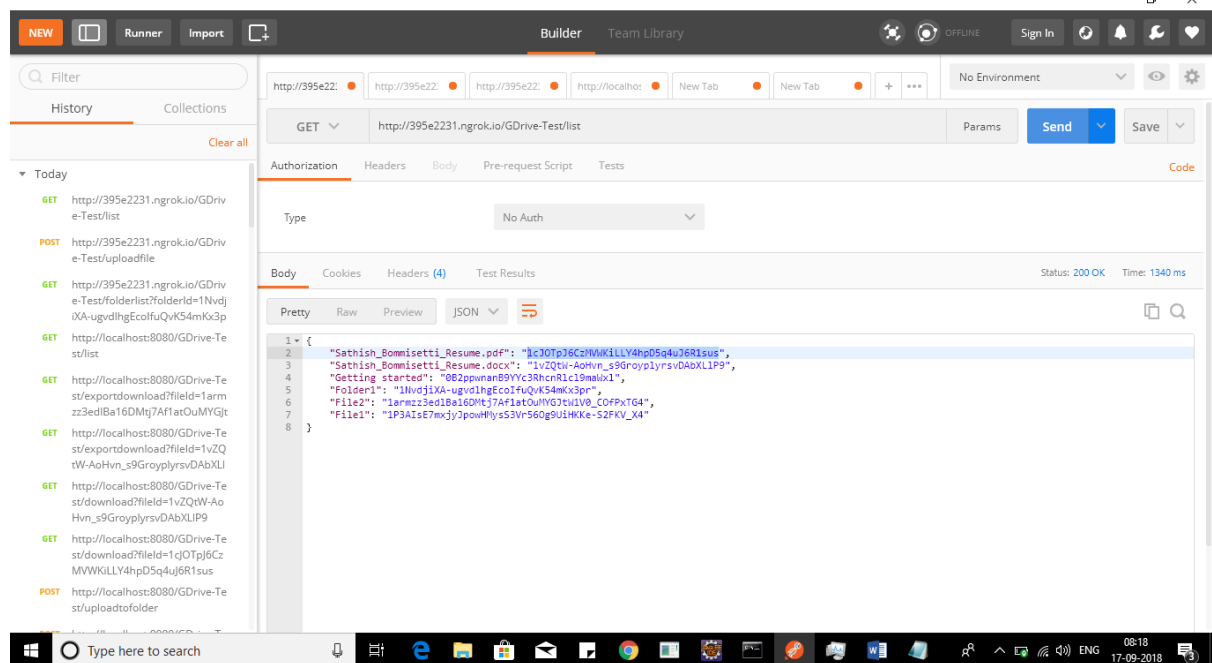
Reason: The webContentLink value is returning null for uploaded files.

Solution: 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:

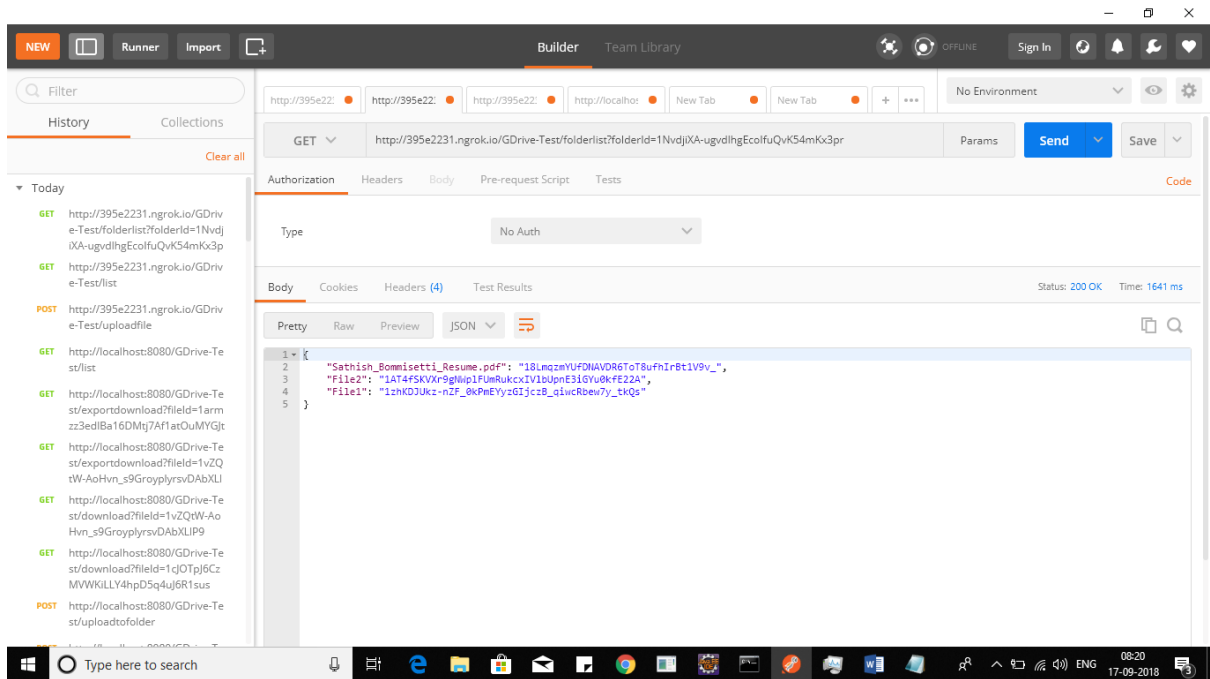
Files List:

`http://395e2231.ngrok.io/GDrive-Test/list`



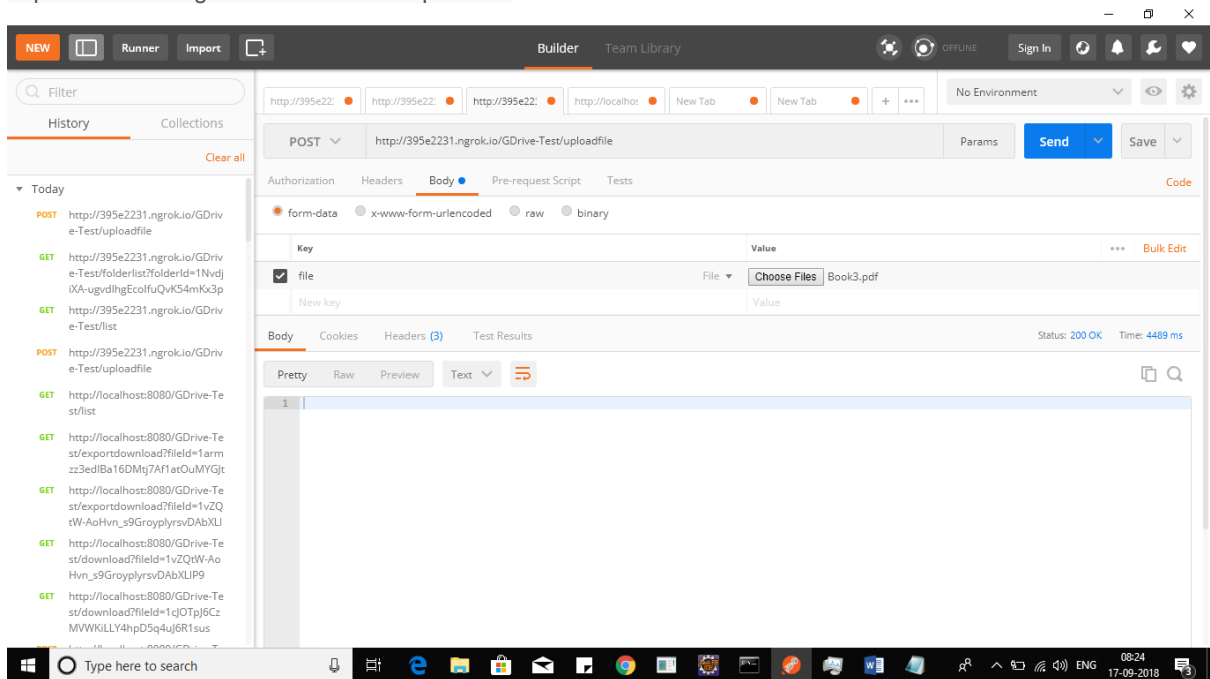
Files in folder:

`http://395e2231.ngrok.io/GDrive-Test/folderlist?folderId=1NvdjiXA-ugvdlhgEcolfuQvK54mKx3p`

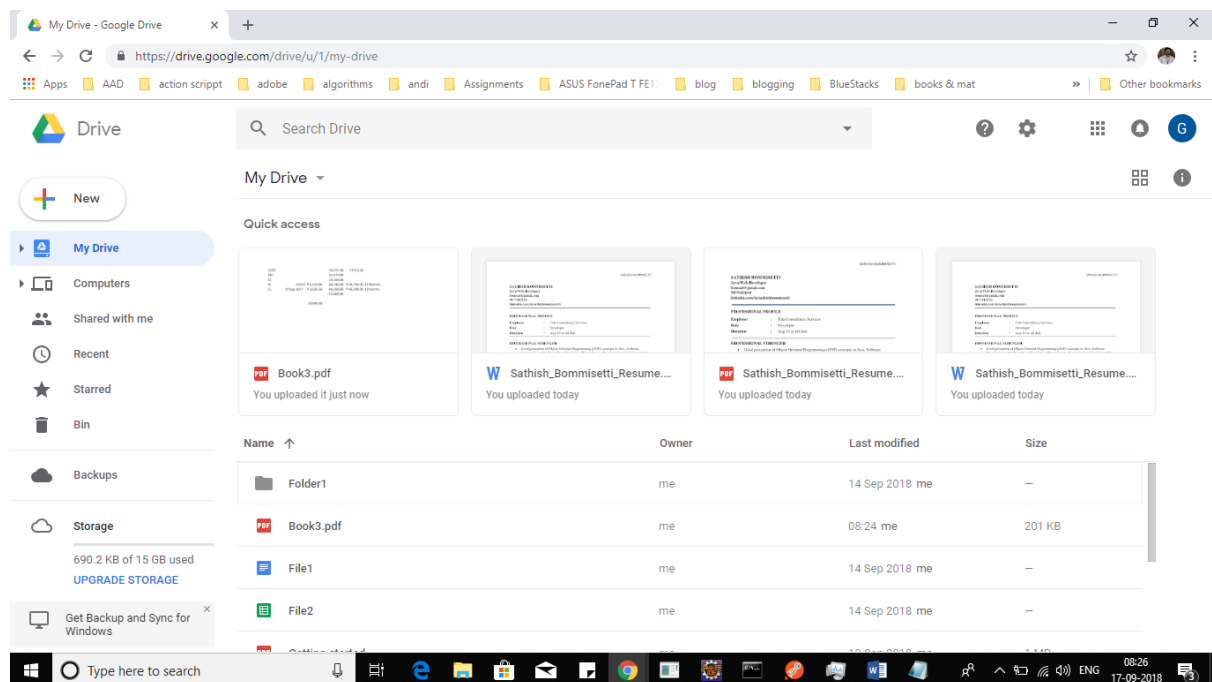


Upload Files:

`http://395e2231.ngrok.io/GDrive-Test/uploadfile`

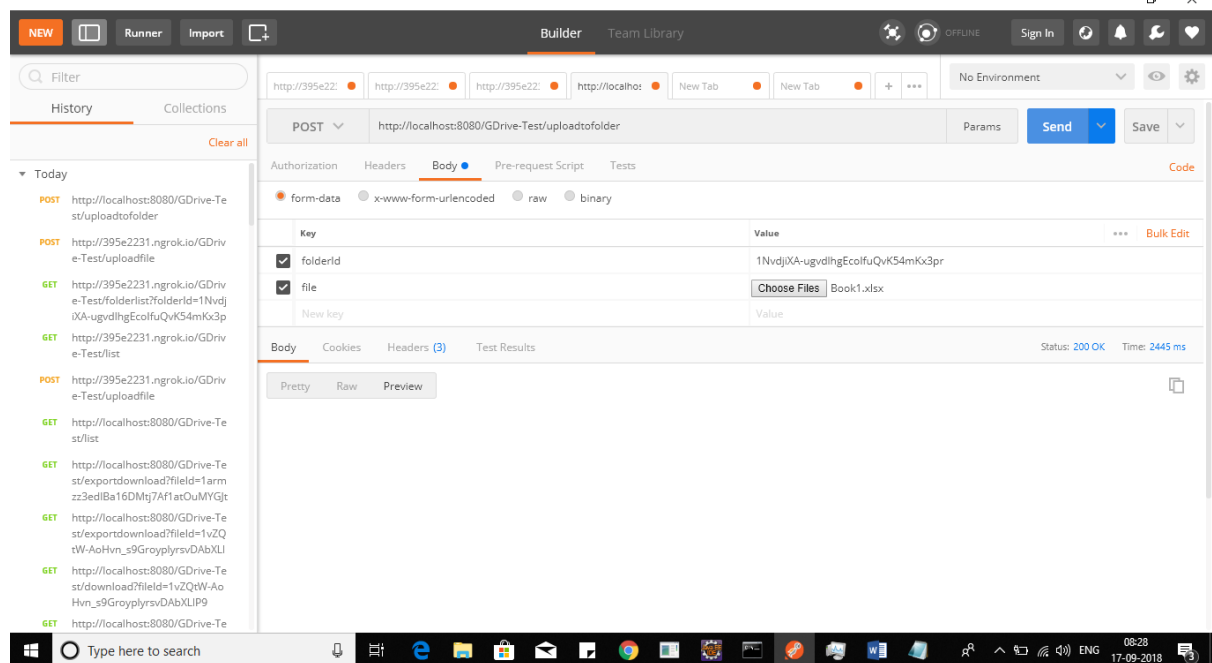


Uploaded file in google drive

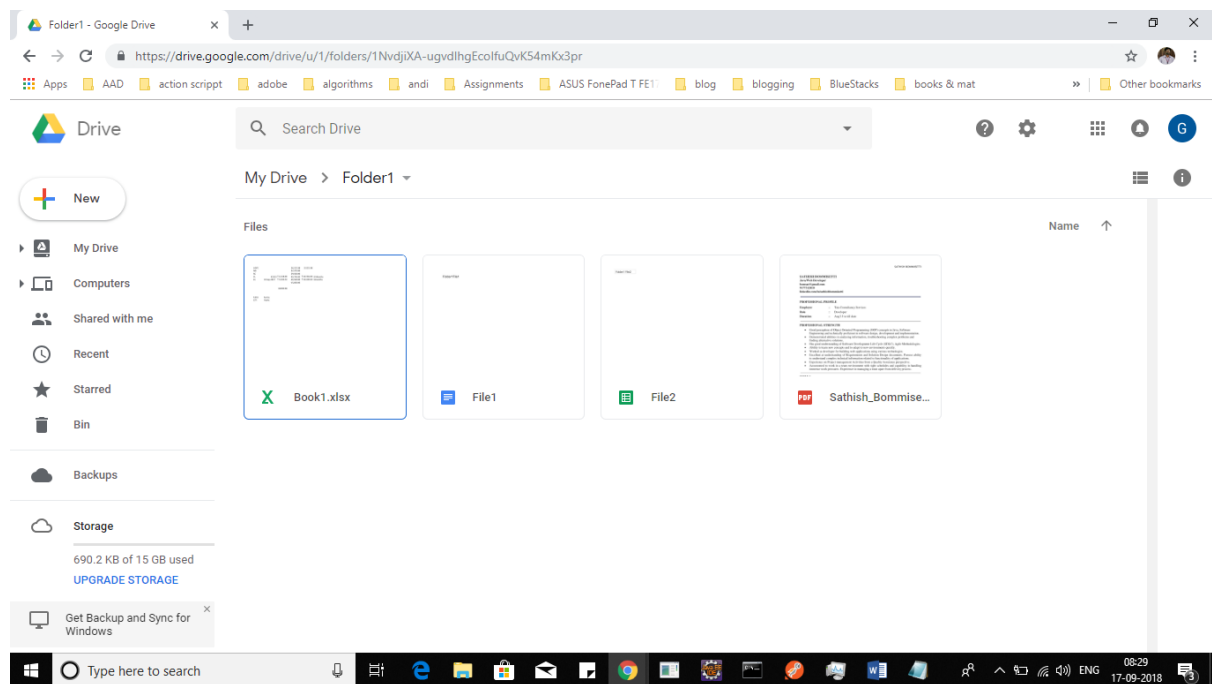


Upload to Folder:

<http://localhost:8080/GDrive-Test/uploadtofolder>



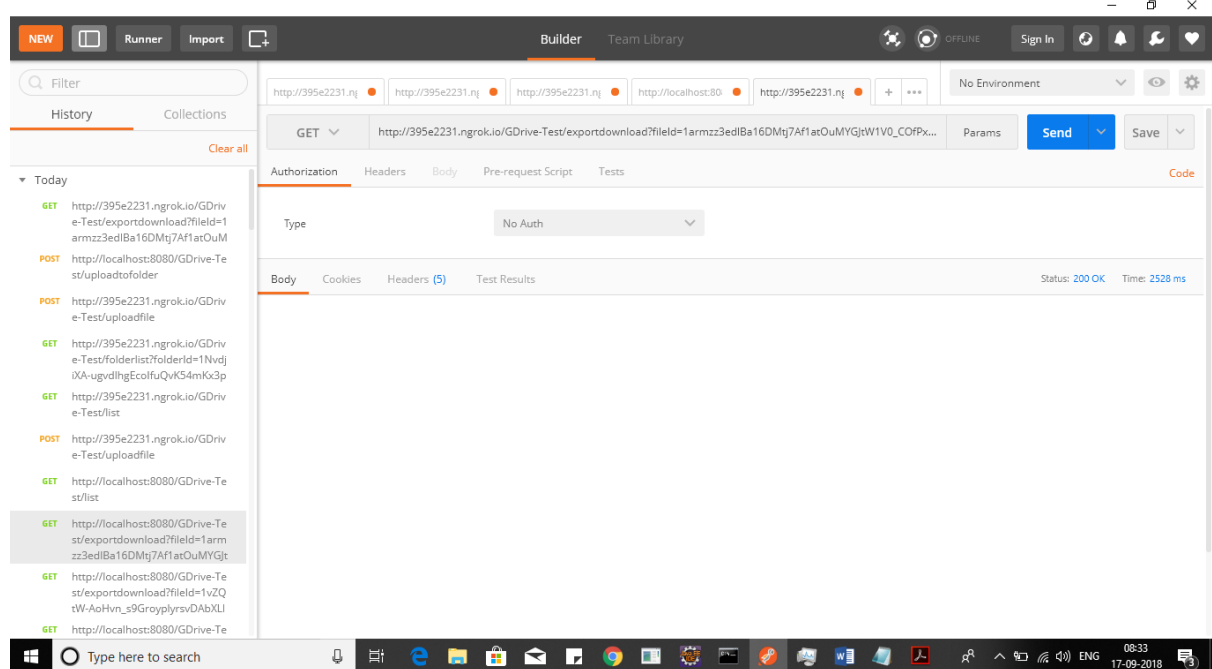
Uploaded file in google drive folder



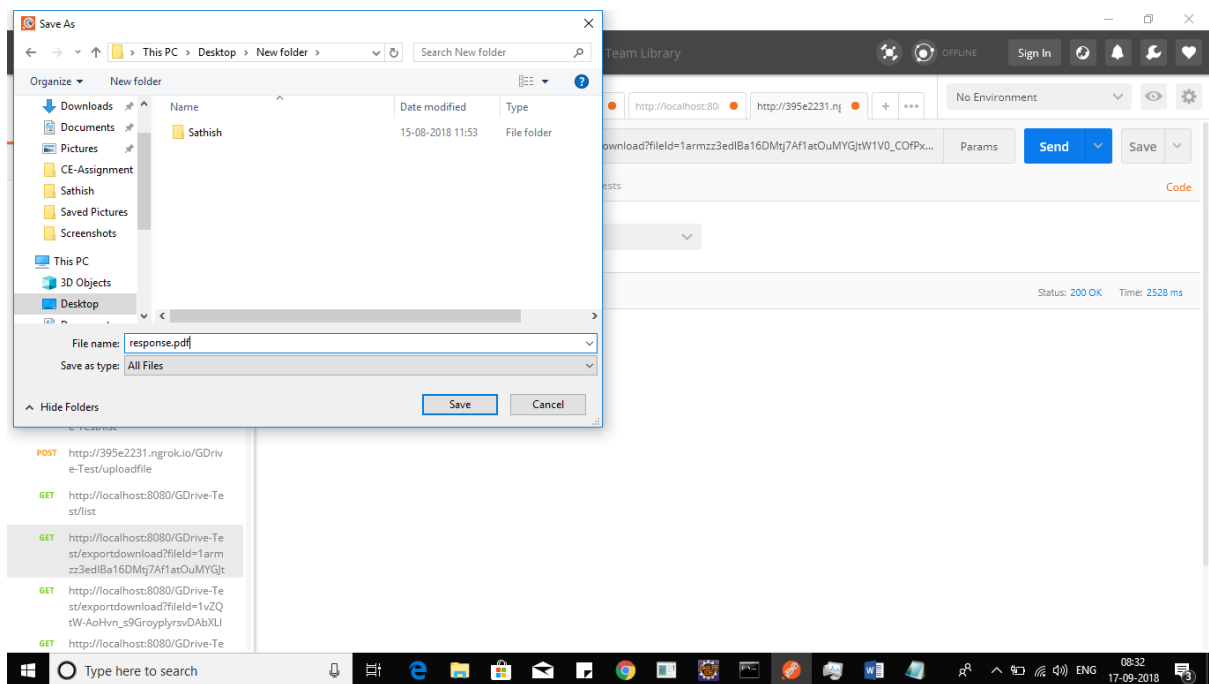
Export Download File:

[http://395e2231.ngrok.io/GDrive-](http://395e2231.ngrok.io/GDrive-Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGjtW1V0_COfPxTG4)

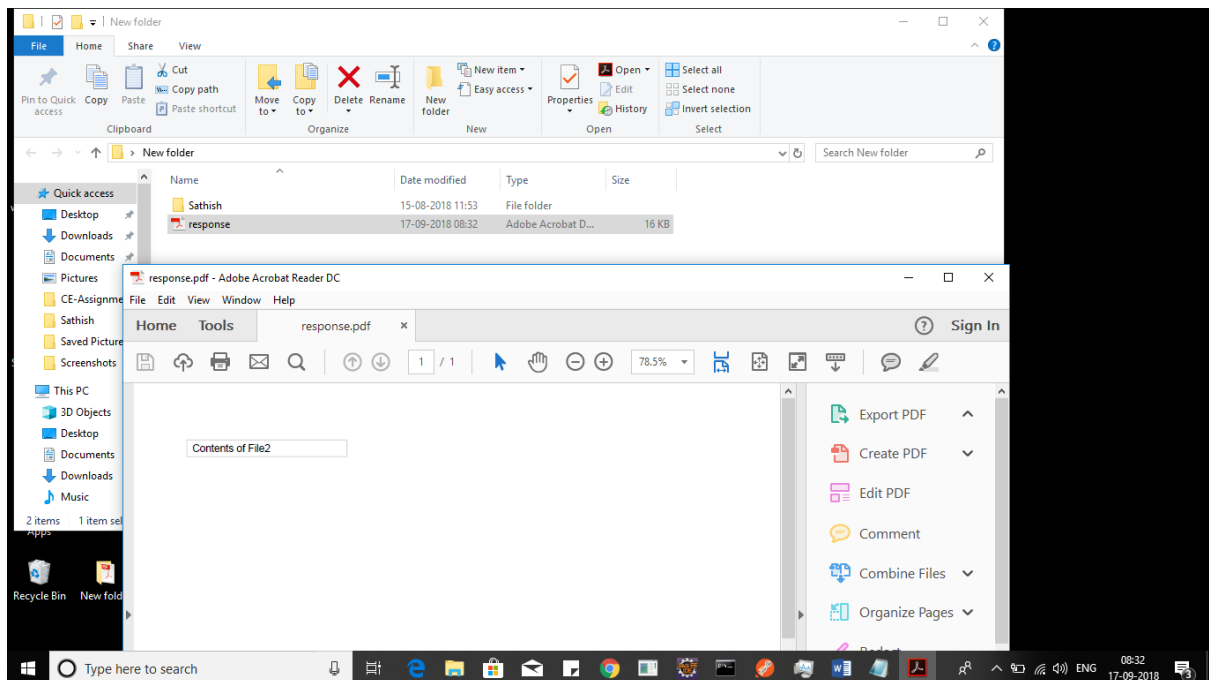
[Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGjtW1V0_COfPxTG4](http://395e2231.ngrok.io/GDrive-Test/exportdownload?fileId=1armzz3edlBa16DMtj7Af1atOuMYGjtW1V0_COfPxTG4)



Save file prompt while downloading



Saved file and contents



Direct download all files:

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

The screenshot shows a REST client interface with a list of requests on the left and a detailed view of a selected GET request on the right. The selected request is to the endpoint `http://395e2231.ngrok.io/GDrive-Test/download?fileId=1qOTpj6CzMWKLLY4hpD5q4uj6R1sus`. The response is an HTTP 500 - 302 Moved Temporarily error. The error message states: "The server encountered an internal error that prevented it from fulfilling this request." The response body contains HTML with a 302 status and a redirect URL.

HTTP Status 500 - 302 Moved Temporarily

Type: Exception report
Message: 302 Moved Temporarily
Description: The server encountered an internal error that prevented it from fulfilling this request.
Exception:
`com.google.api.client.http.HttpResponseException: 302 Moved Temporarily`
`<HTML>`
`<HEAD>`
`<TITLE>Moved Temporarily</TITLE>`
`</HEAD>`
`<BODY bgcolor="#ffffff" text="#000000">`
`<H1>Moved Temporarily</H1>`
`The document has moved here`
`</BODY>`
`</HTML>`
`com.google.api.client.http.HttpRequest.execute(HttpRequest.java:1072)`
`com.drivetest.service.DriveServiceImpl.downloadFiles(DriveServiceImpl.java:135)`
`com.drivetest.controller.DriveController.download(DriveController.java:47)`

Facing temporarily file moved issue while directly downloading file.