

ITL LAB: EXPERIMENT 7

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UID: 2019140059

CLASS: TE IT

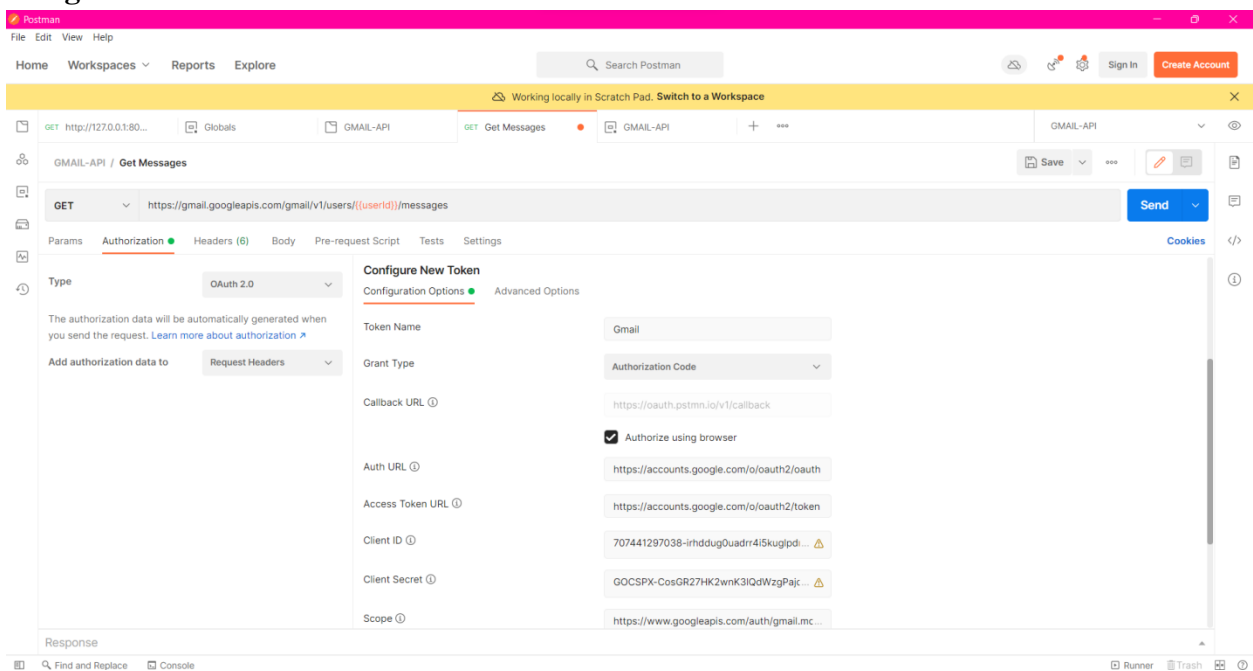
BATCH: D

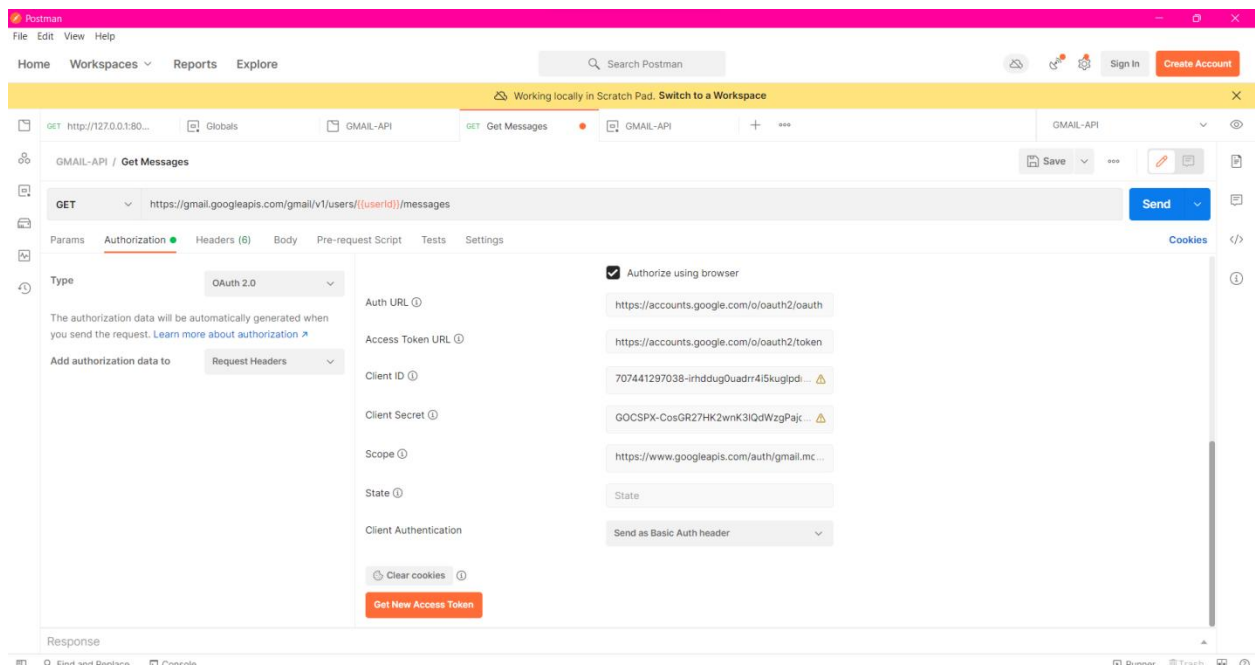
AIM: Implement secured web service using OAuth and JWT

Google server will generate token - Authorization server- uses credentials of gmail account and send token to us . We will be the clients of any application like Mcdonald. So as a client of Mcdonald resource server where details of burgers and beverage are kept we will send getrequest which will be an end point /bergers. in that request header will send token received from google. Mcdonald server will decode that token and will get our credentials and check these credentilas in database if yes i am the user then it will give me details of burgers..

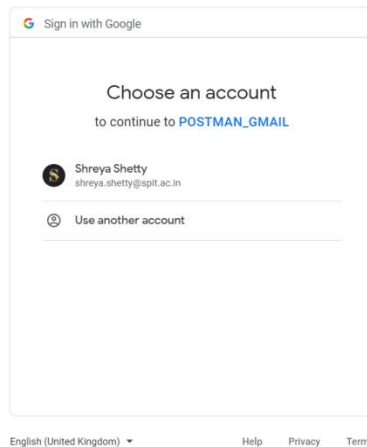
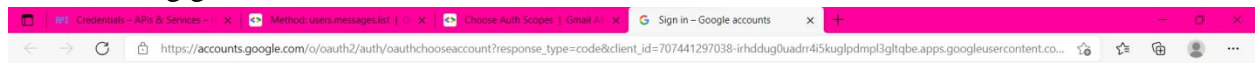
OUTPUT :

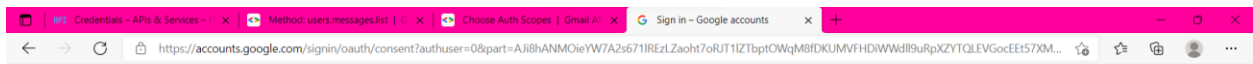
Using OAuth2 in Postman with Gmail API -






After clicking get access token:






Sign in with Google

POSTMAN_GMAIL wants to access your Google Account

 shreya.shetty@spit.ac.in

This will allow **POSTMAN_GMAIL** to:

 Read, compose and send emails from your Gmail account

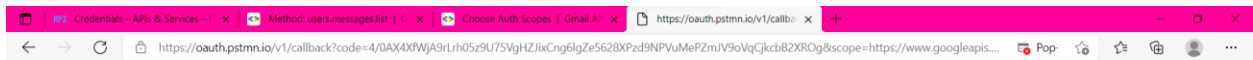
Make sure that you trust POSTMAN_GMAIL

You may be sharing sensitive info with this site or app. You can always see or remove access in your [Google Account](#).

Learn how Google helps you [share data safely](#).

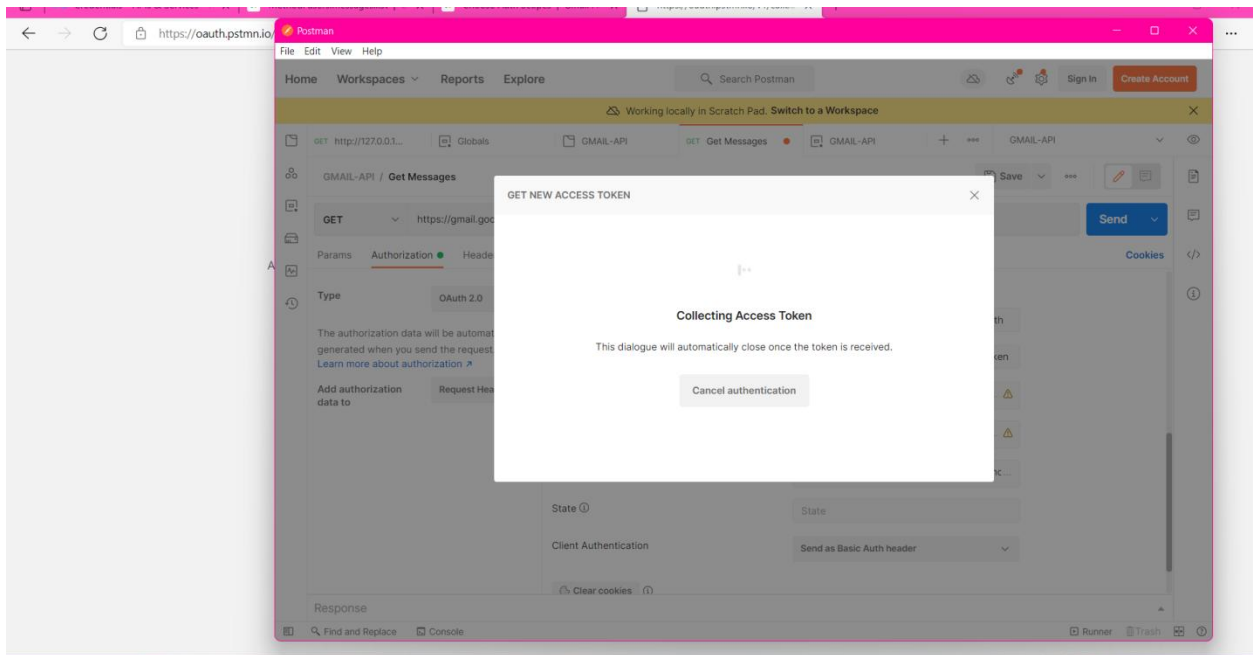
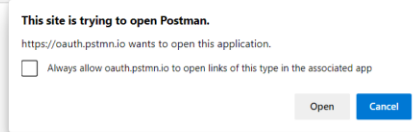
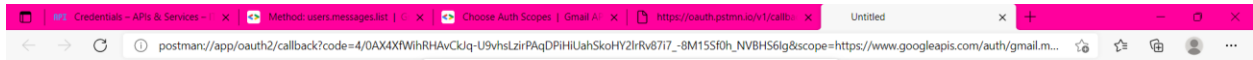
See POSTMAN_GMAIL's privacy policy and Terms of Service.

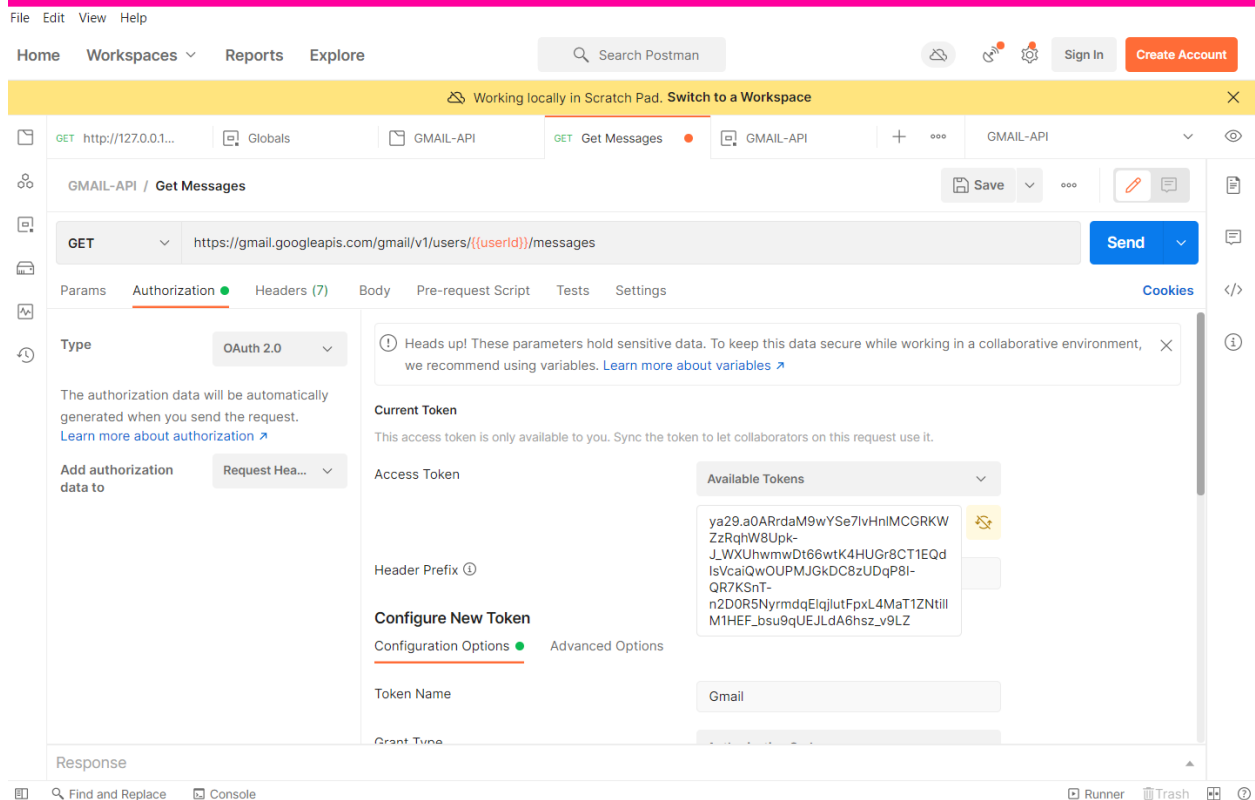
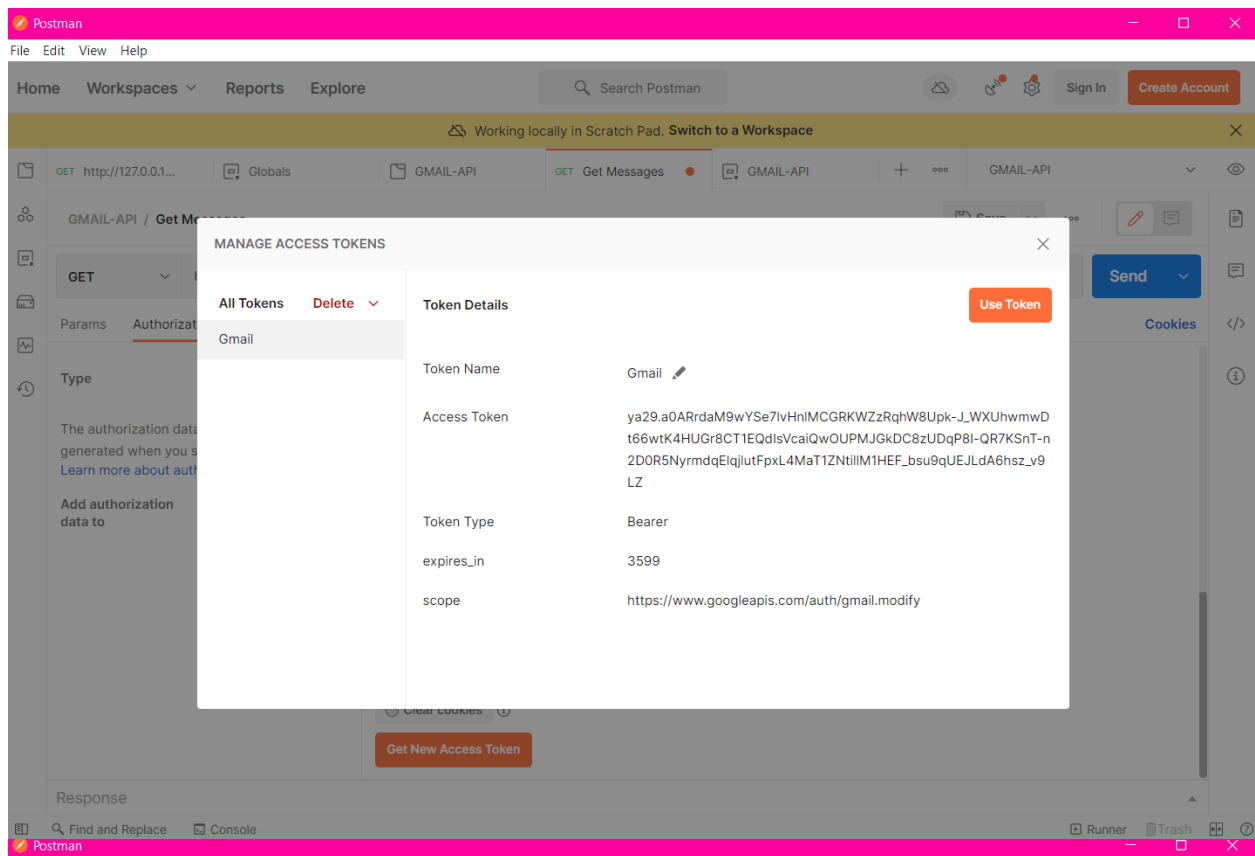
English (United Kingdom) Help Privacy Terms

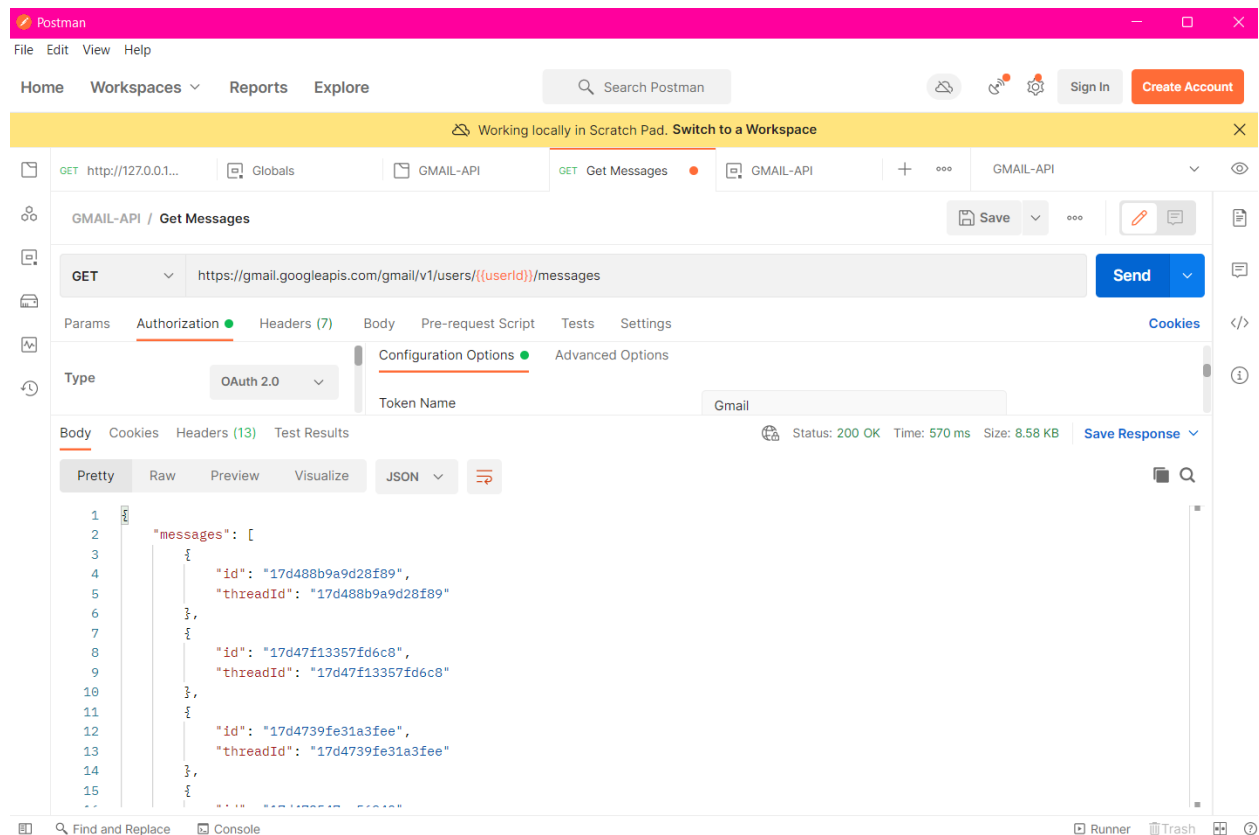


Your call is authenticated

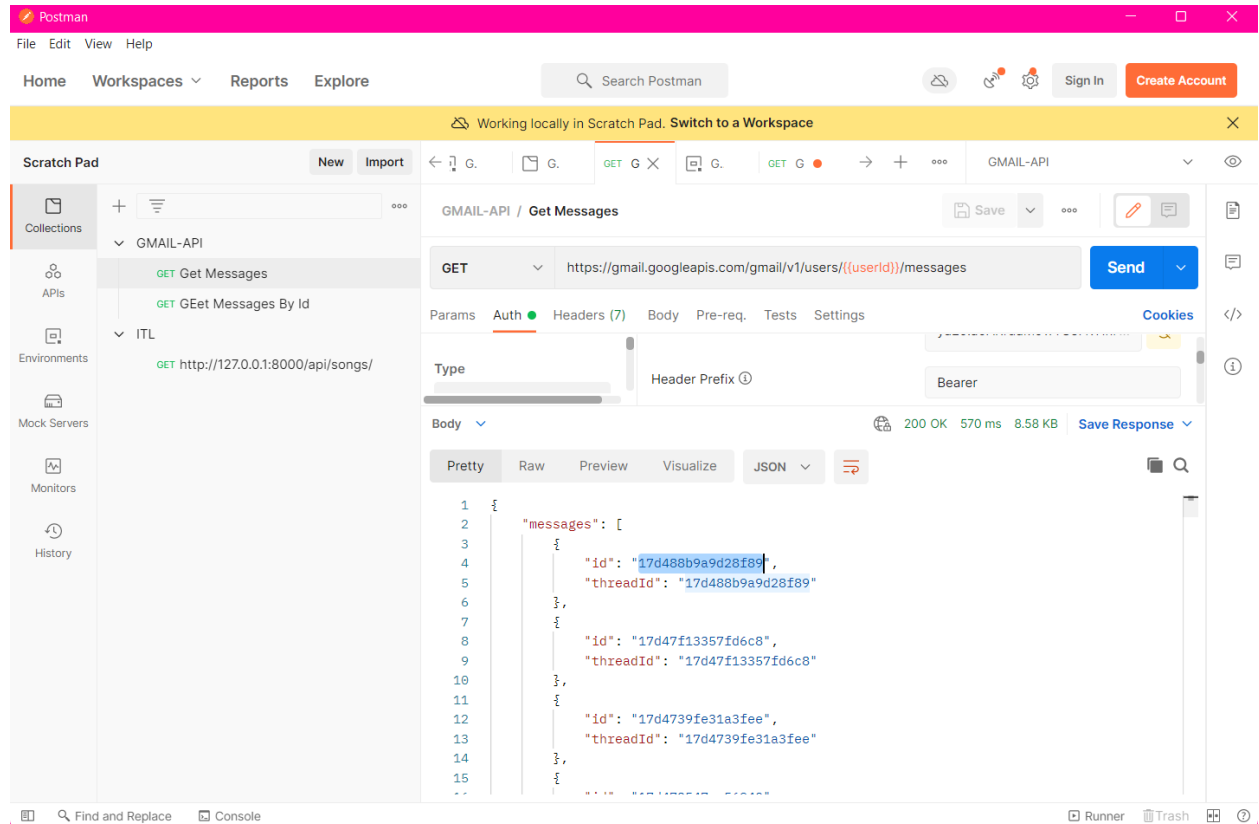
A new window should open directing you back to the Postman app. If nothing happens, check to make sure your browser allows pop-ups.

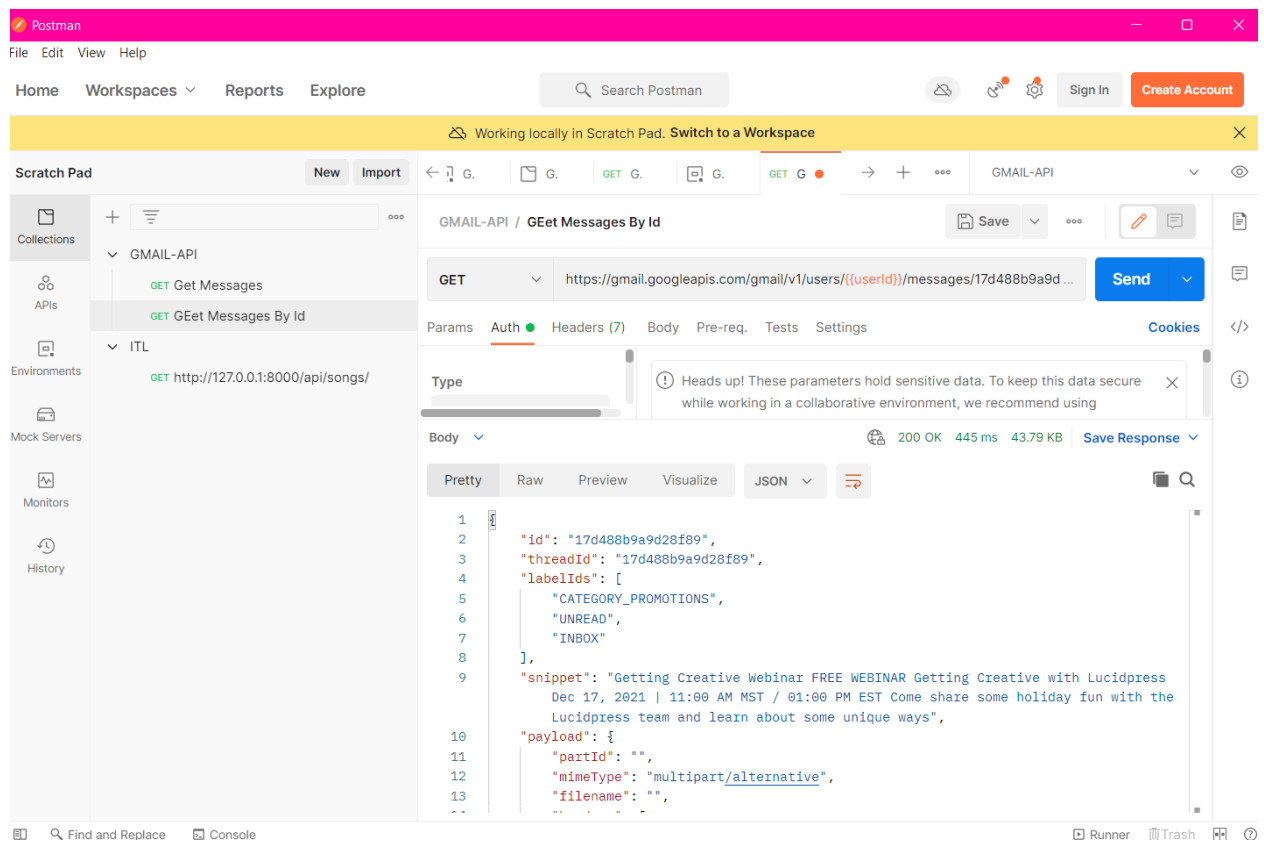




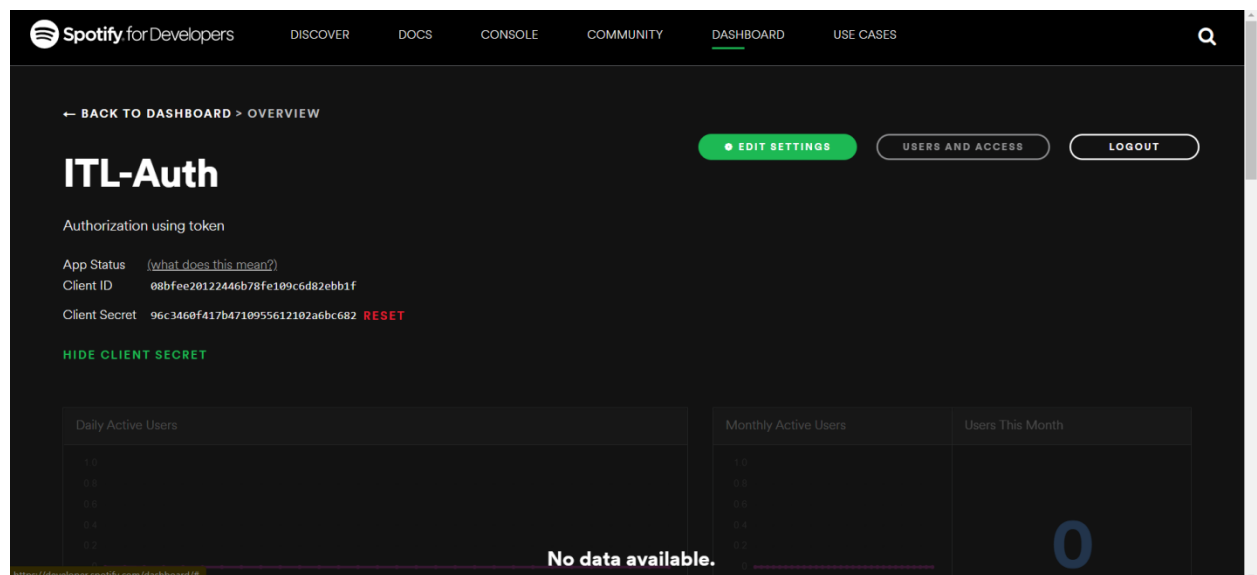


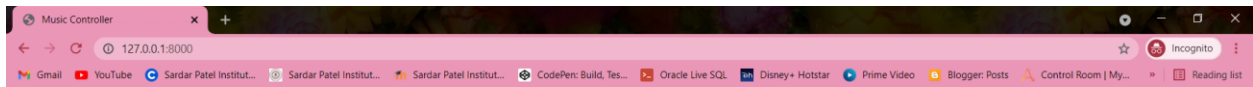
Getting Request By ID :





Authorization by generating Access and Refresh Token using Spotify API using Django REST Framework - :

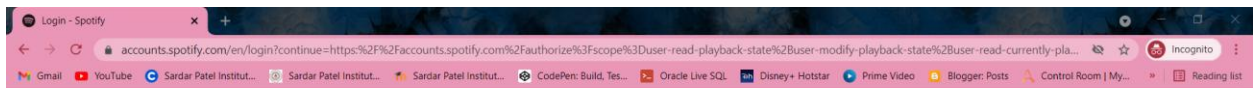




House Party

JOIN A ROOM

CREATE A ROOM



To continue, log in to Spotify.

CONTINUE WITH FACEBOOK

CONTINUE WITH APPLE

CONTINUE WITH GOOGLE

CONTINUE WITH PHONE NUMBER

OR

Email address or username

shreya.shetty@spit.ac.in

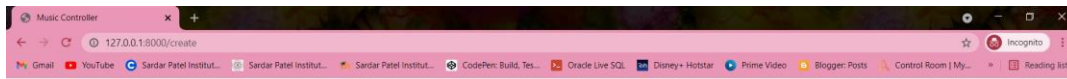
Password

[Forgot your password?](#)

☒ Remember me

LOG IN





Create a Room

Guest Control of Playback State



Play/Pause



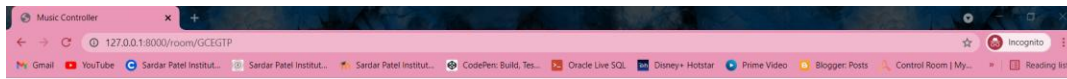
No Control

2

Votes Required To Skip Song

CREATE A ROOM

BACK



Code: GCEGTP



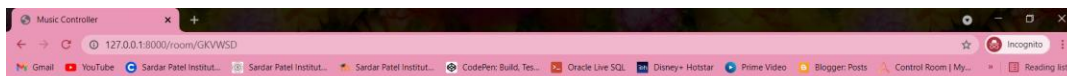
All Too Well (Taylor's Version)

Taylor Swift



SETTINGS

LEAVE ROOM



Room updated successfully!



Update Room

Guest Control of Playback State



Play/Pause



No Control

1

Votes Required To Skip Song

UPDATE ROOM

CLOSE

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
*****

ACCESS TOKEN : BQAD04qsFgarRmAQU6MiVC166vdZ5jeYZNCLJq-KHLSJy75rOHs1SqC5d7M03Iy2V4wLXHP_TOiIVKi7w_UJfAXbS0K1h9rPg7PvseL_xar1PZzHqUxbmCjtbWfKJm_3W
niGWFLHRTBb3xA1GXQA0DP2lpg14ljDXeg1FetLXg

REFRESH TOKEN : AQCyldnHhcgwadZwaOfjxw4oKj04GyUpYON1WBW4RESHHG4WX8huM0Mp7W-a28jM7GahNgNj9dSzsrbisGQN5tNuTba-qDbs6usCnfrBpuvrZAguiqJqWR8fFDUYf94r
f4

Expires in : 3600

Token Type : Bearer

*****

[23/Nov/2021 06:08:20] "GET /spotify/redirect?code=AQBQN9ZTc5wQHUCR5Zj-SCNkmNRpfHwz9-m6e5KG3SGtqeZcqDQPdWLGRLCNxKARt3o8jd-ncdUewGbSE7eY6NMBAaFiwb6
KEv5gbAx1mZ_2daNqG6ZEBm9gfYTGW56vjB7EqGpnTSKq4Ydle3G7JhoBWF1QyrG9F1zChuaF173SQgSLtJCW6lmH3tPhxKieip8ip5-rKKft8nNALVzvAacpA9n8weUHm8HpRRN5xcTLtGVA
af_W7rlFgWoT5Z_JPuCn-V7C7g0AWyhp3QA9tcLDIW3-GF1SQN71_4 HTTP/1.1" 302 0
[23/Nov/2021 06:08:20] "GET / HTTP/1.1" 200 627
[23/Nov/2021 06:08:20] "GET /static/css/index.css HTTP/1.1" 200 277
[23/Nov/2021 06:08:20] "GET /static/frontend/main.js HTTP/1.1" 200 970276
[23/Nov/2021 06:08:21] "GET /api/user-in-room HTTP/1.1" 200 14
[23/Nov/2021 06:08:32] "POST /api/create-room HTTP/1.1" 201 151
[23/Nov/2021 06:08:32] "GET /api/get-room?code=GCEGTP HTTP/1.1" 200 166
[23/Nov/2021 06:08:32] "GET /spotify/is-authenticated HTTP/1.1" 200 15
[23/Nov/2021 06:08:44] "GET /spotify/current-song HTTP/1.1" 200 236
[23/Nov/2021 06:08:45] "GET /spotify/current-song HTTP/1.1" 200 236
[23/Nov/2021 06:08:46] "GET /spotify/current-song HTTP/1.1" 200 236
[23/Nov/2021 06:08:47] "GET /spotify/current-song HTTP/1.1" 200 232
[23/Nov/2021 06:08:48] "GET /spotify/current-song HTTP/1.1" 200 223
```

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[23/Nov/2021 06:13:56] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:13:57] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:13:58] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:13:59] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:00] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:01] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:02] "GET /spotify/current-song HTTP/1.1" 200 225

***** Checking Authentication (If token is expired then refresh) *****

[23/Nov/2021 06:14:05] "GET /spotify/is-authenticated HTTP/1.1" 200 15
[23/Nov/2021 06:14:06] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:06] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:07] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:08] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:09] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:10] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:11] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:13] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:14] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:15] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:16] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:17] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:18] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:19] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:20] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:21] "GET /spotify/current-song HTTP/1.1" 200 225
[23/Nov/2021 06:14:21] "GET /spotify/current-song HTTP/1.1" 200 225
```

CONCLUSION: In this experiment, I implemented secured web service (Authorization) by generating access and refresh tokens and successfully accessing data by signing in through Google account.