

Ebunoluwa Oyeyemi - Rocket Chat Technical Specialist Challenge

<http://8b1e078a083e.ngrok.io>

<https://8b1e078a083e.ngrok.io>

Admin Username: ebunoyeyemi

Password: Pa\$\$w0rD

Environment:

- Ubuntu 20.10 O/S
- Ngrok
- Postman

Assignment 1: Install and set up your Rocket.Chat environment and provide us the URL and a user/password so we can access it.

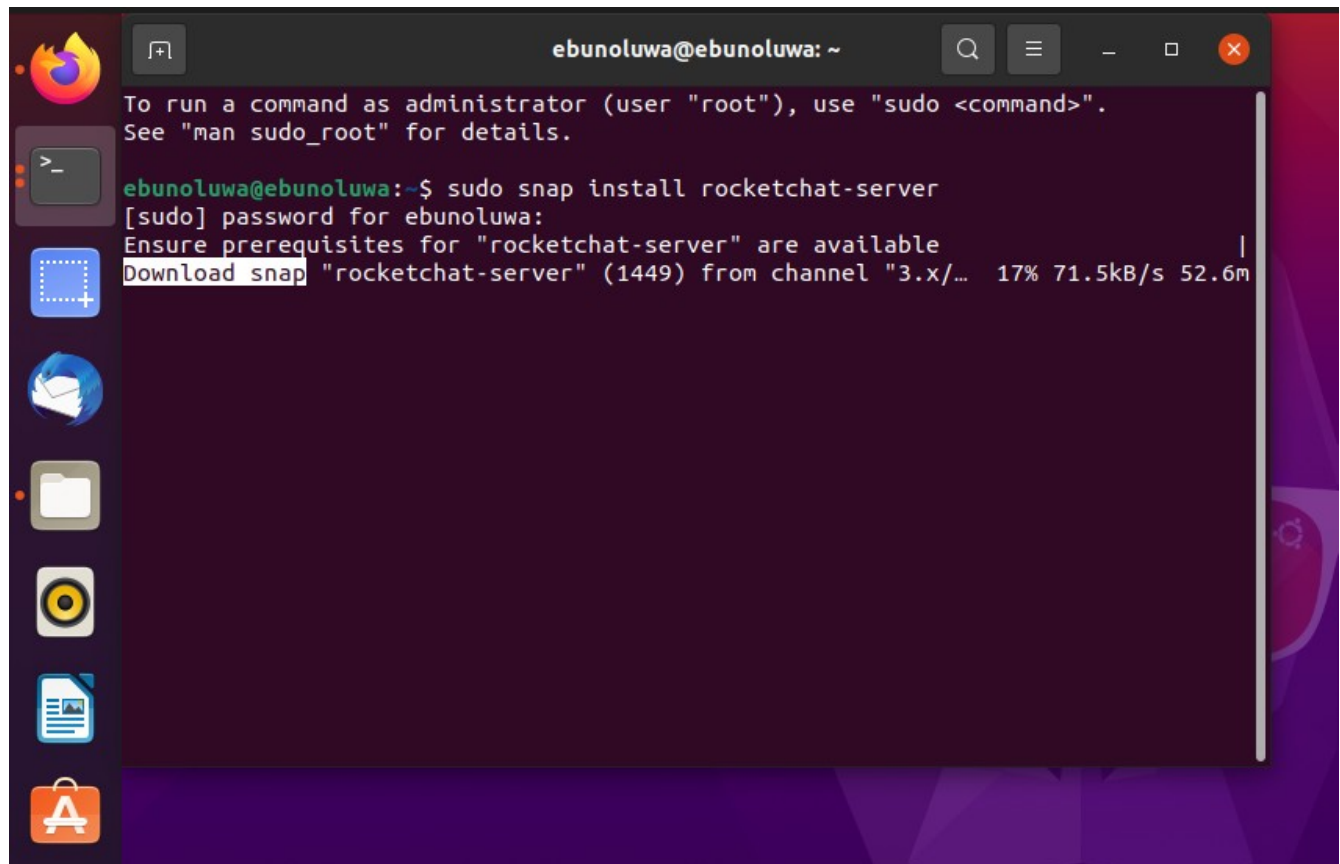
I followed the instruction on this link to install Rocket Chat on my O/S -

<https://docs.rocket.chat/installation/snaps>

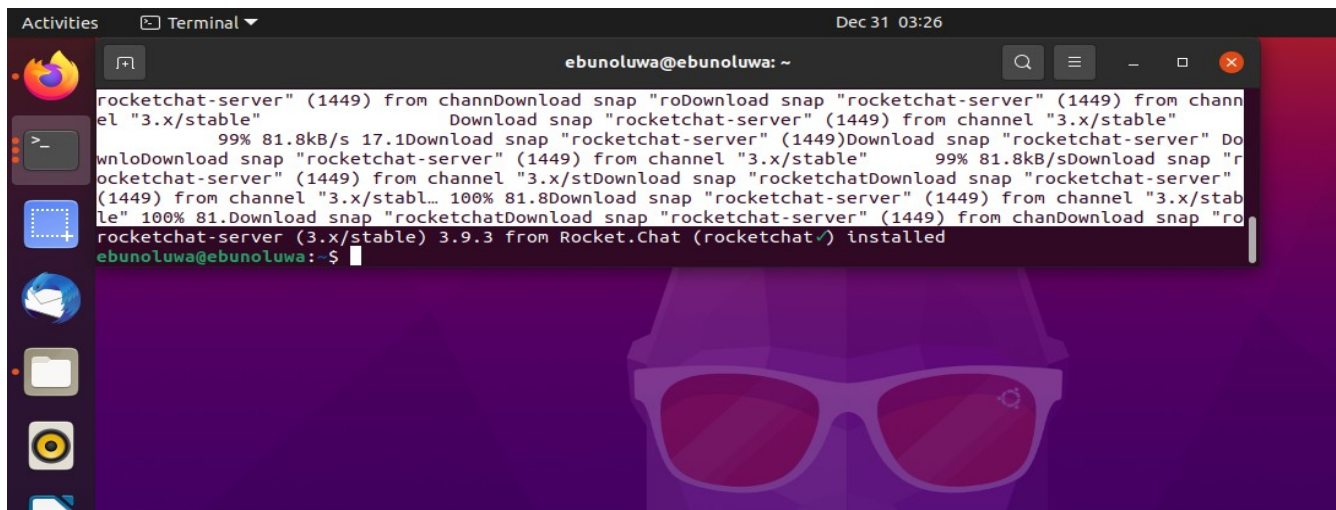
I opened the terminal on the Ubuntu O/S, then run the command

```
sudo snap install rocketchat-server
```

You might want to take a cup of coffee and relax as this might take a while. See image below.

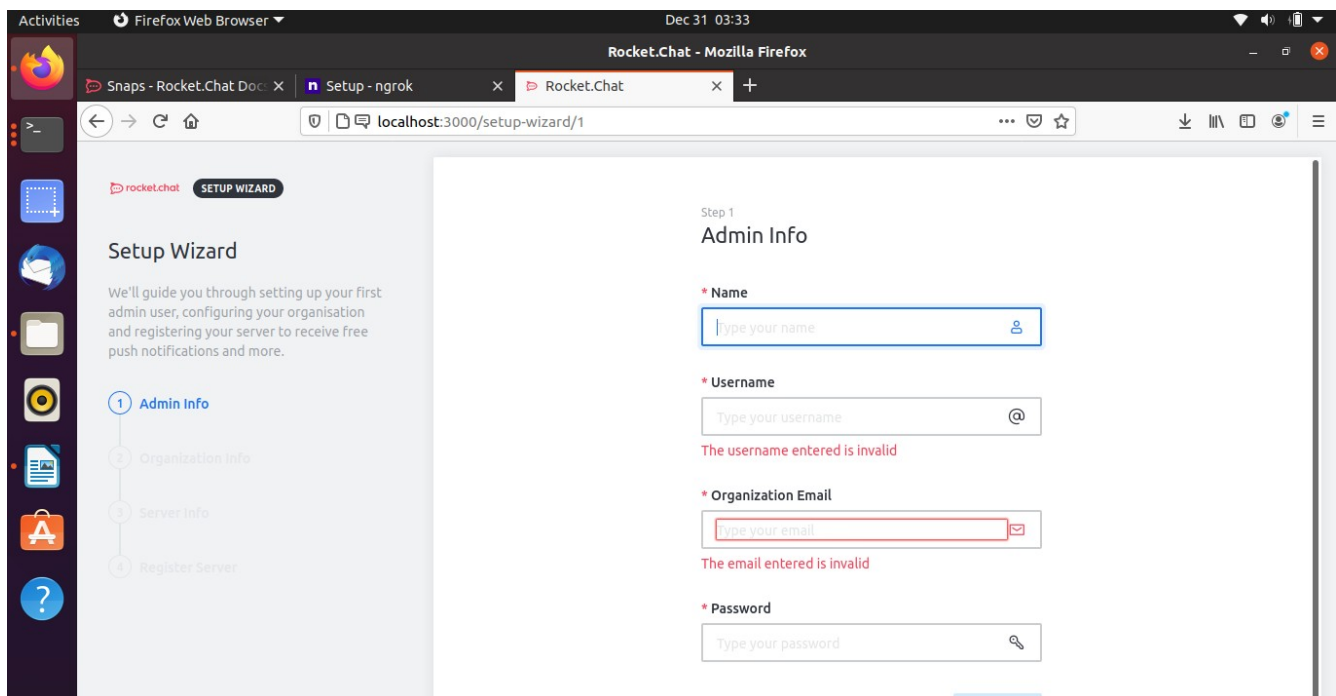


Once the installation was completed, I had the image below, it marked that Rocket.Chat has been installed

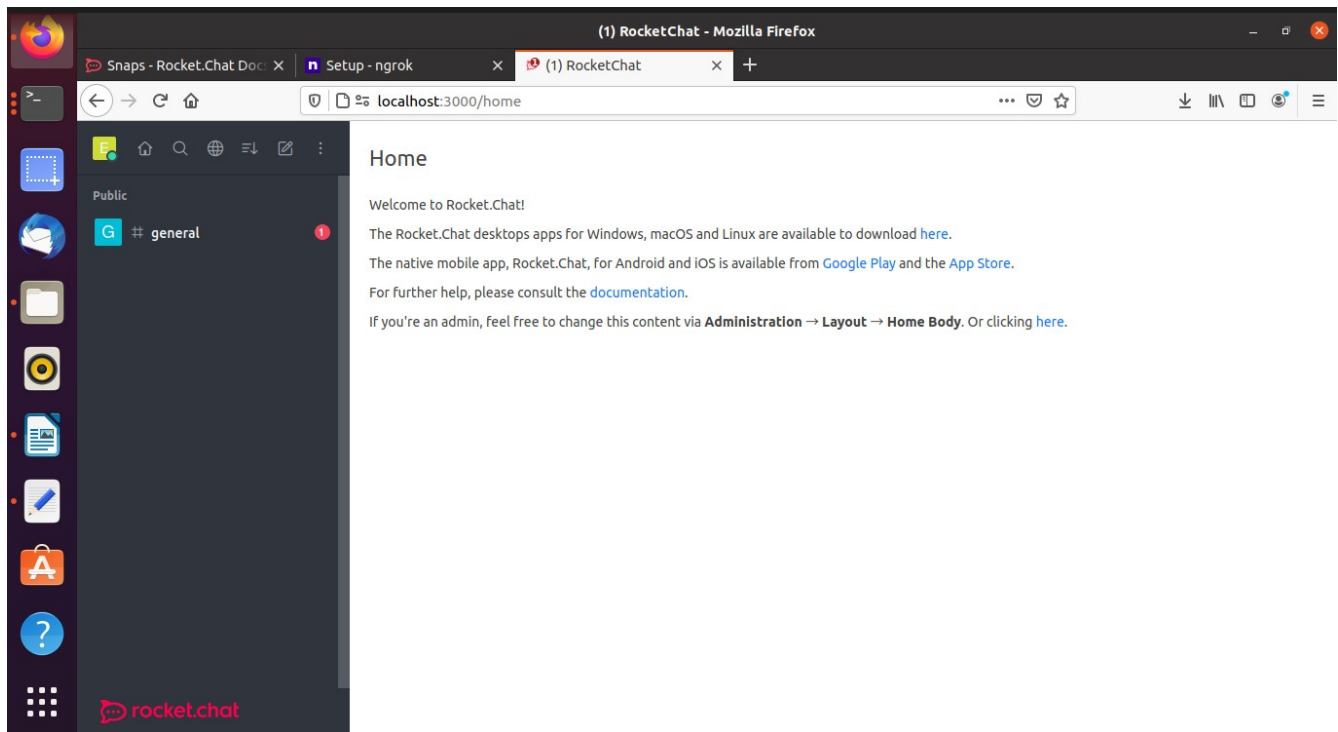


```
ebunoluwa@ebunoluwa: ~  
roketchat-server" (1449) from channDownload snap "roDownload snap "rocketchat-server" (1449) from chann  
el "3.x/stable"          Download snap "rocketchat-server" (1449) from channel "3.x/stable"  
          99% 81.8kB/s 17.1Download snap "rocketchat-server" (1449)Download snap "rocketchat-server" Do  
wnloDownload snap "rocketchat-server" (1449) from channel "3.x/stable"          99% 81.8kB/sDownload snap "r  
ocketchat-server" (1449) from channel "3.x/stDownload snap "rocketchatDownload snap "rocketchat-server"  
(1449) from channel "3.x/stabl... 100% 81.8Download snap "rocketchat-server" (1449) from channel "3.x/stab  
le" 100% 81.8Download snap "rocketchatDownload snap "rocketchat-server" (1449) from chanDownload snap "ro  
cketchat-server (3.x/stable) 3.9.3 from Rocket.Chat (rocketchat✓) installed  
ebunoluwa@ebunoluwa: ~ $
```

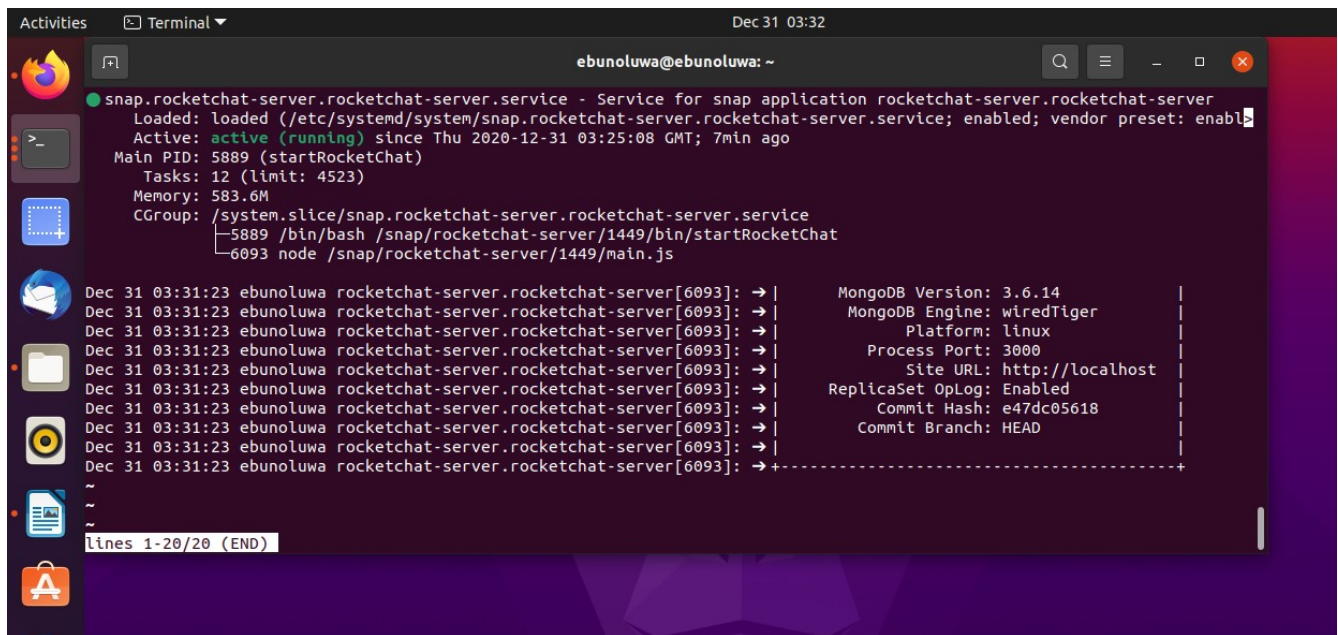
I checked the <http://localhost:3000> almost immediately, but it didn't come up, I tried again after a minute and it pop up as in the image below



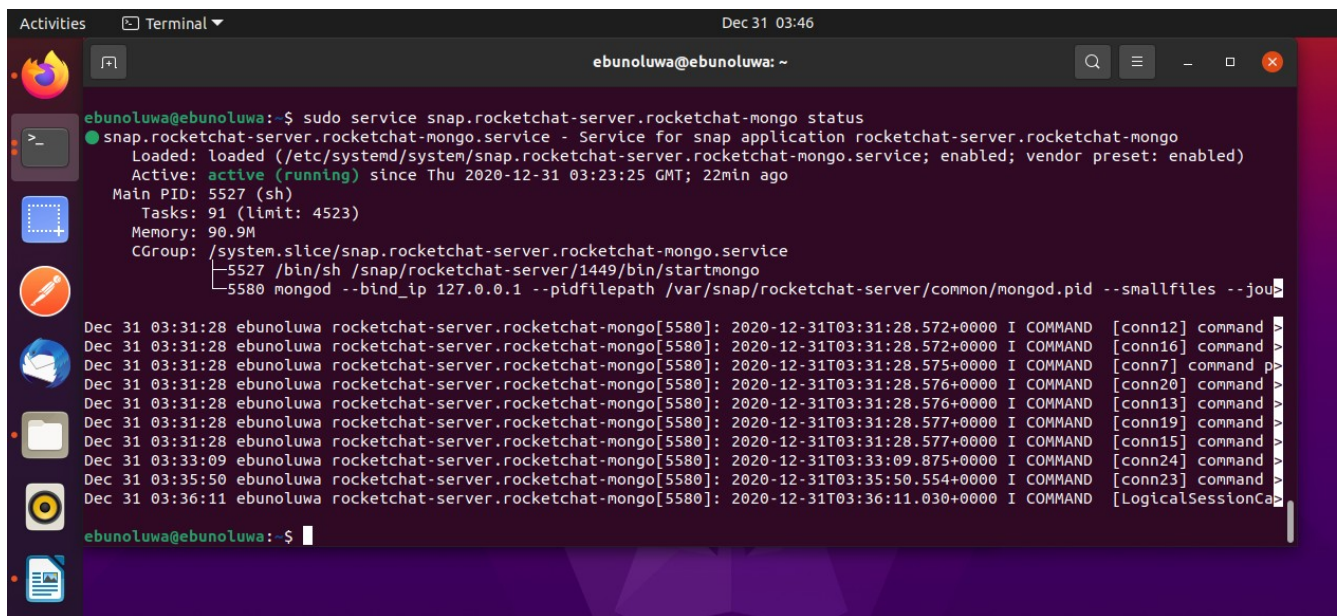
Then I setup my admin account, and inserted all details as required, then Rocket.Chat came up as shown below



Then I run the command to check if it is running using the below command
`sudo service snap.rocketchat-server.rocketchat-server status`



I also checked the mongo services

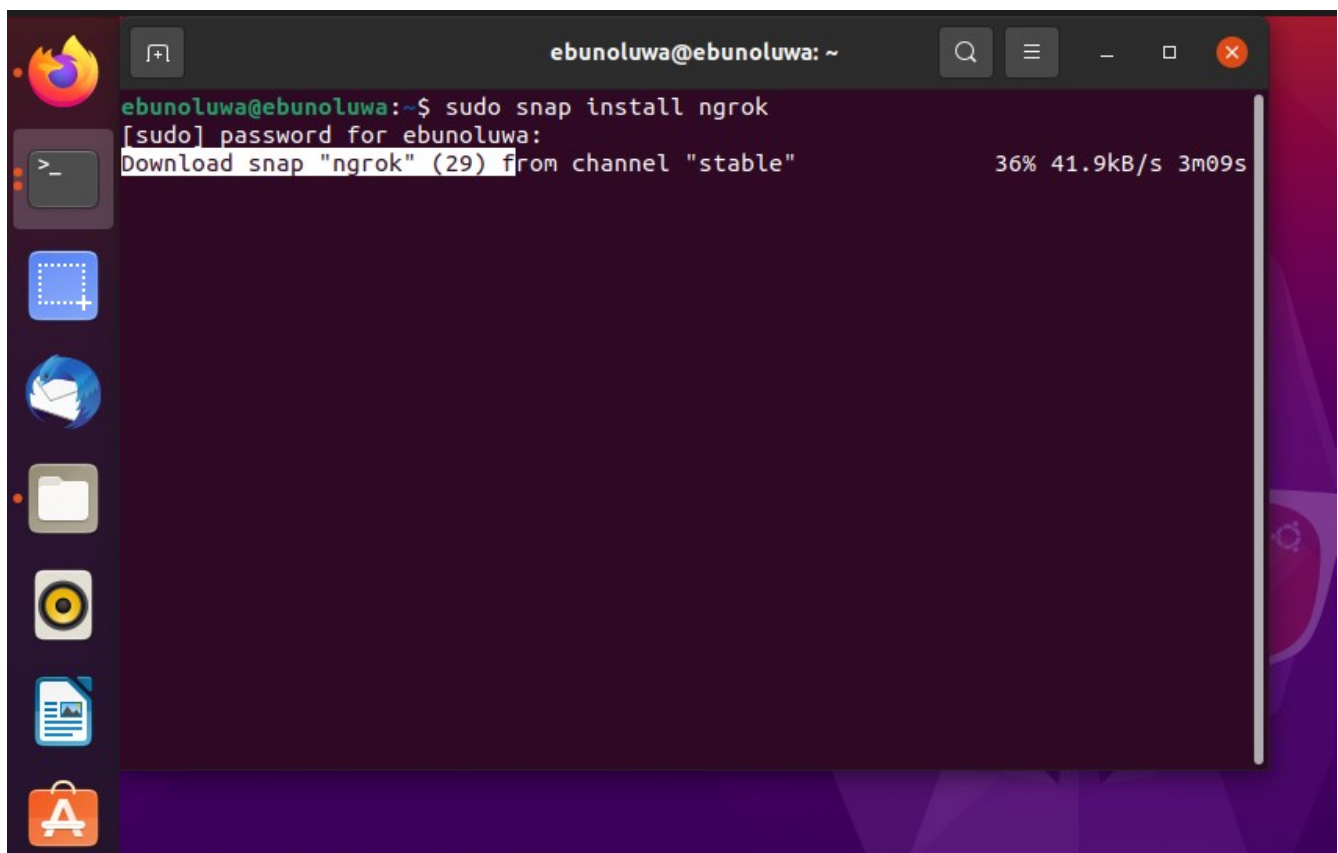


```
ebunoluwa@ebunoluwa:~$ sudo service snap.rocketchat-server.rocketchat-mongo status
● snap.rocketchat-server.rocketchat-mongo.service - Service for snap application rocketchat-server.rocketchat-mongo
   Loaded: loaded (/etc/systemd/system/snap.rocketchat-server.rocketchat-mongo.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2020-12-31 03:23:25 GMT; 22min ago
     Main PID: 5527 (sh)
        Tasks: 91 (limit: 4523)
      Memory: 90.9M
         CGroup: /system.slice/snap.rocketchat-server.rocketchat-mongo.service
                └─5527 /bin/sh /snap/rocketchat-server/1449/bin/startmongo
                  └─5580 mongod --bind_ip 127.0.0.1 --pidfilepath /var/snap/rocketchat-server/common/mongod.pid --smallfiles --journal

Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.572+0000 I COMMAND [conn12] command
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.572+0000 I COMMAND [conn16] command
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.575+0000 I COMMAND [conn7] command p
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.576+0000 I COMMAND [conn20] command
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.576+0000 I COMMAND [conn13] command
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.577+0000 I COMMAND [conn19] command
Dec 31 03:31:28 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:31:28.577+0000 I COMMAND [conn15] command
Dec 31 03:33:09 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:33:09.875+0000 I COMMAND [conn24] command
Dec 31 03:35:50 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:35:50.554+0000 I COMMAND [conn23] command
Dec 31 03:36:11 ebunoluwa rocketchat-server.rocketchat-mongo[5580]: 2020-12-31T03:36:11.030+0000 I COMMAND [LogicalSessionCa
```

I used ngrok, so I can tunnel my localhost for you to access. I registered on Ngrok.com. Then installed ngrok on the system using the command as shown in the image below

sudo snap install ngrok



```
ebunoluwa@ebunoluwa:~$ sudo snap install ngrok
[sudo] password for ebunoluwa:
Download snap "ngrok" (29) from channel "stable" 36% 41.9kB/s 3m09s
```

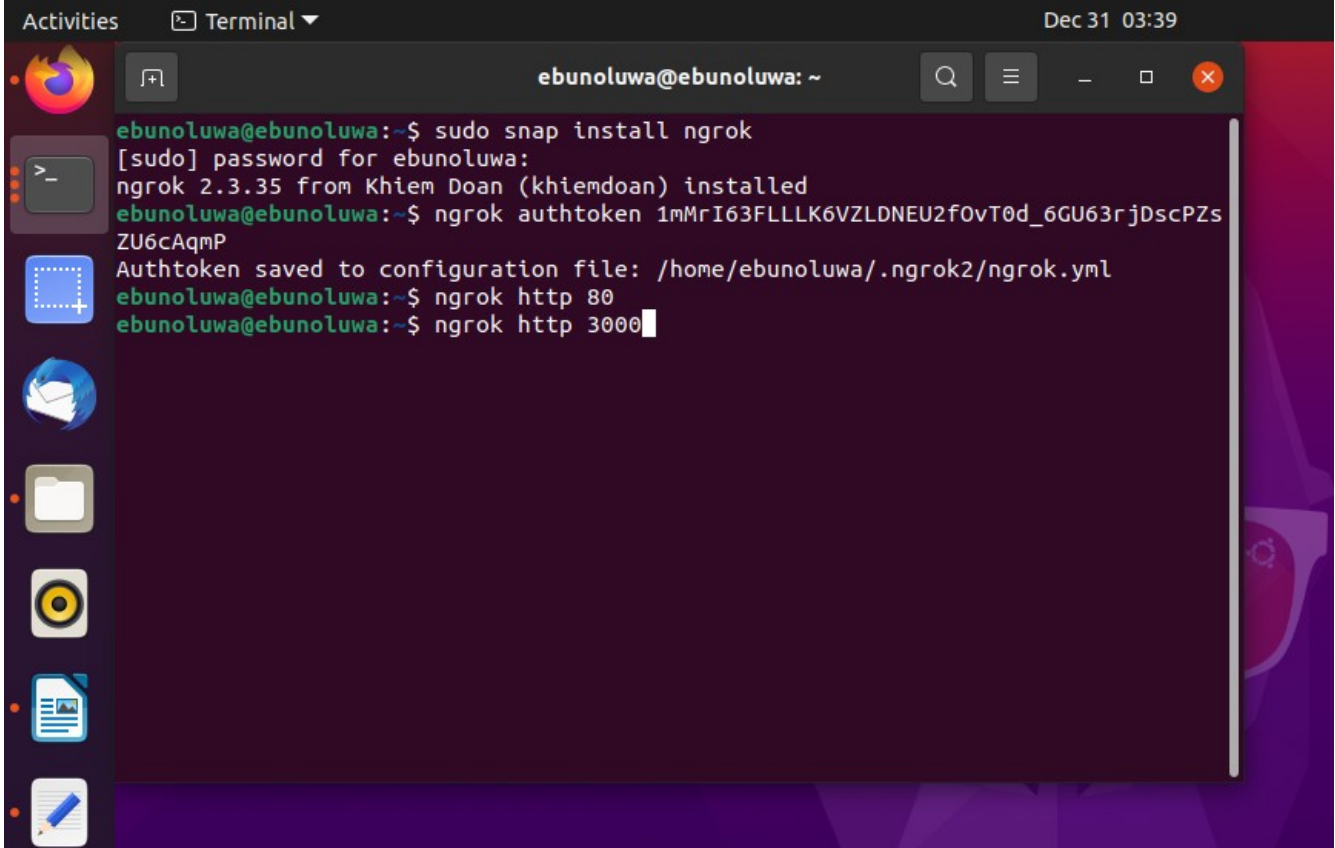
After the installation was completed, then I authenticate with the auth token provided by Ngrok. I checked the host by running

ngrok host 80

It responded okay.

Since the localhost is on 3000, I tunneled the host to 3000 by using the command in the Terminal

ngrok host 3000

A screenshot of a Linux desktop environment with a terminal window open. The terminal window has a title bar that says "ebunoluwa@ebunoluwa: ~". The terminal output shows the user running the command "sudo snap install ngrok", which is followed by a password prompt and the message "ngrok 2.3.35 from Khiem Doan (khiemdoan) installed". Then, the user runs "ngrok authtoken 1mMrI63FLLLK6VZLDNEU2f0vT0d_6GU63rjDscPZsZU6cAqmP", and the terminal shows "Authtoken saved to configuration file: /home/ebunoluwa/.ngrok2/ngrok.yml". Finally, the user runs "ngrok http 80" and "ngrok http 3000". The desktop background is a purple and blue abstract pattern. On the left side, there is a vertical dock with icons for Firefox, a terminal, a file manager, a music player, a document, and a notepad.

```
ebunoluwa@ebunoluwa:~$ sudo snap install ngrok
[sudo] password for ebunoluwa:
ngrok 2.3.35 from Khiem Doan (khiemdoan) installed
ebunoluwa@ebunoluwa:~$ ngrok authtoken 1mMrI63FLLLK6VZLDNEU2f0vT0d_6GU63rjDscPZsZU6cAqmP
Authtoken saved to configuration file: /home/ebunoluwa/.ngrok2/ngrok.yml
ebunoluwa@ebunoluwa:~$ ngrok http 80
ebunoluwa@ebunoluwa:~$ ngrok http 3000
```

It responded as below where I was able to get the tunneled address for anyone to access the local host from anywhere.

```
ngrok by @inconshreveable (Ctrl+C to quit)

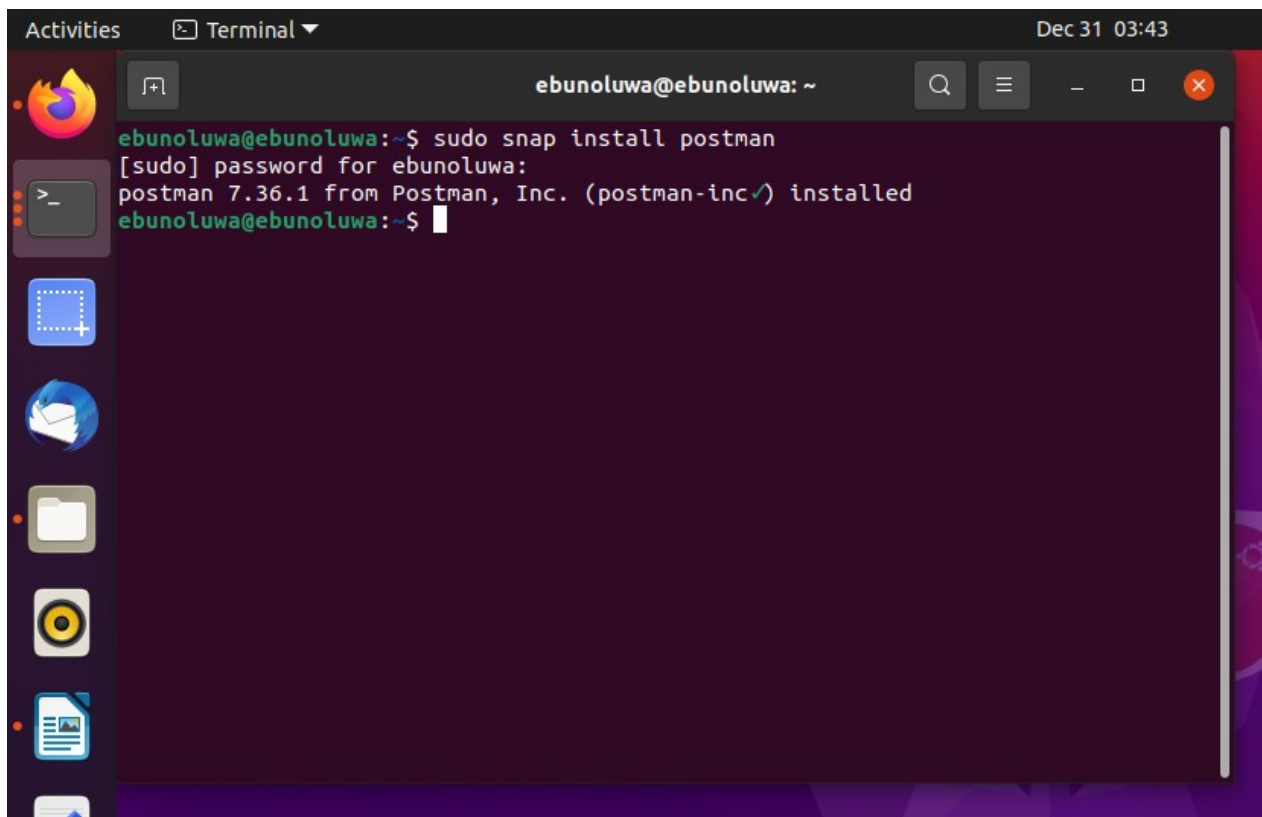
Session Status      online
Account             ebunoyeyemi (Plan: Free)
Version             2.3.35
Region              United States (us)
Web Interface       http://127.0.0.1:4040
Forwarding           http://8b1e078a083e.ngrok.io -> http://localhost:3000
                   https://8b1e078a083e.ngrok.io -> http://localhost:3000

Connections         ttl    opn    rt1    rt5    p50    p90
                   0      0      0.00   0.00   0.00   0.00
```

Assignment 2:

1. Create a new user via an API endpoint
2. Get the room information via an API endpoint
3. Get a list of all user roles in the system via an API endpoint

I installed Postman using the below command
`sudo snap install postman`

A screenshot of a Linux terminal window. The window title is "Terminal" and the user is "ebunoluwa@ebunoluwa: ~". The terminal shows the command "sudo snap install postman" being executed. The output indicates that Postman 7.36.1 was successfully installed from Postman, Inc. The terminal prompt is now "ebunoluwa@ebunoluwa:~\$". The background of the terminal is dark purple. On the left side of the terminal window, there is a vertical dock with several application icons: a web browser, a file manager, a terminal, a mail client, a folder, a music player, and a document editor. The top of the window shows the "Activities" menu and the system clock "Dec 31 03:43".

```
ebunoluwa@ebunoluwa:~$ sudo snap install postman
[sudo] password for ebunoluwa:
postman 7.36.1 from Postman, Inc. (postman-inc✓) installed
ebunoluwa@ebunoluwa:~$
```

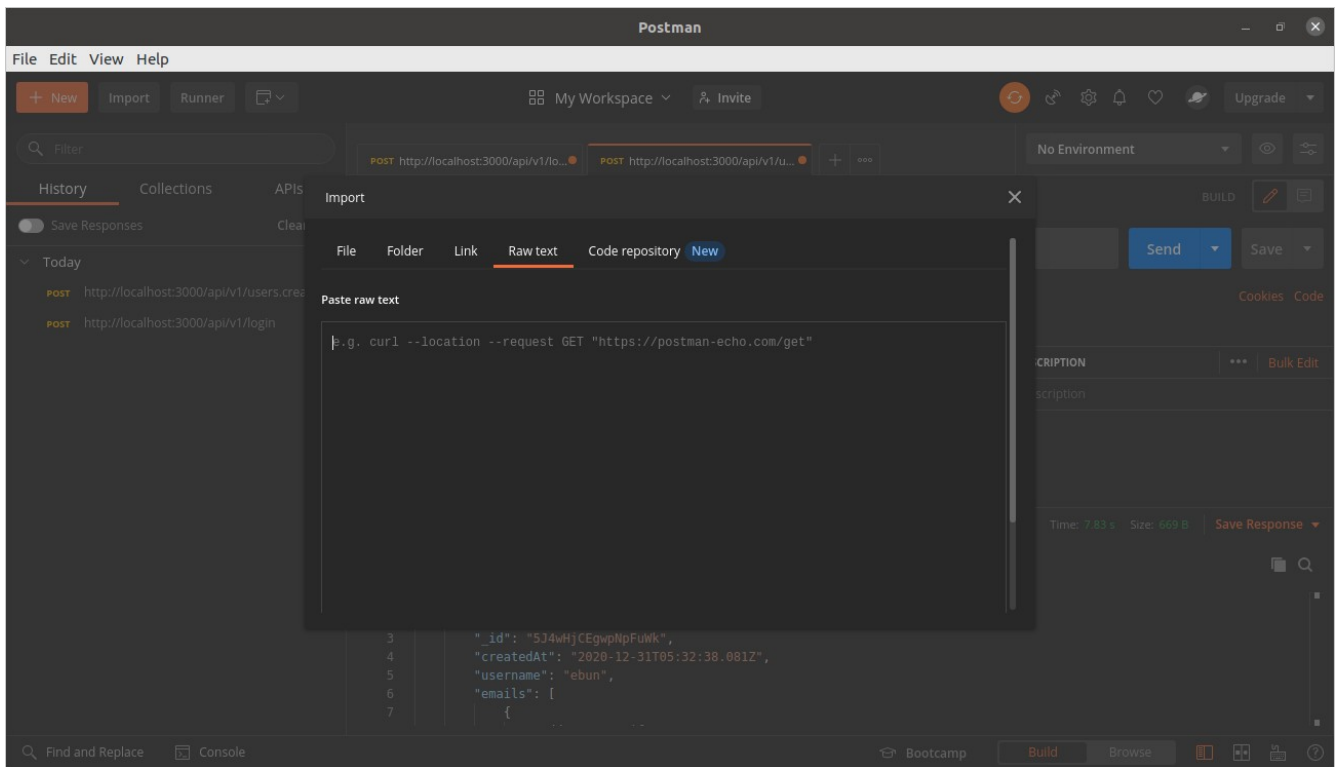
After successful installation, I searched for Postman, and then launch.

I needed to get User ID and Auth Token, so I run the curl command to login to the localhost in Postman

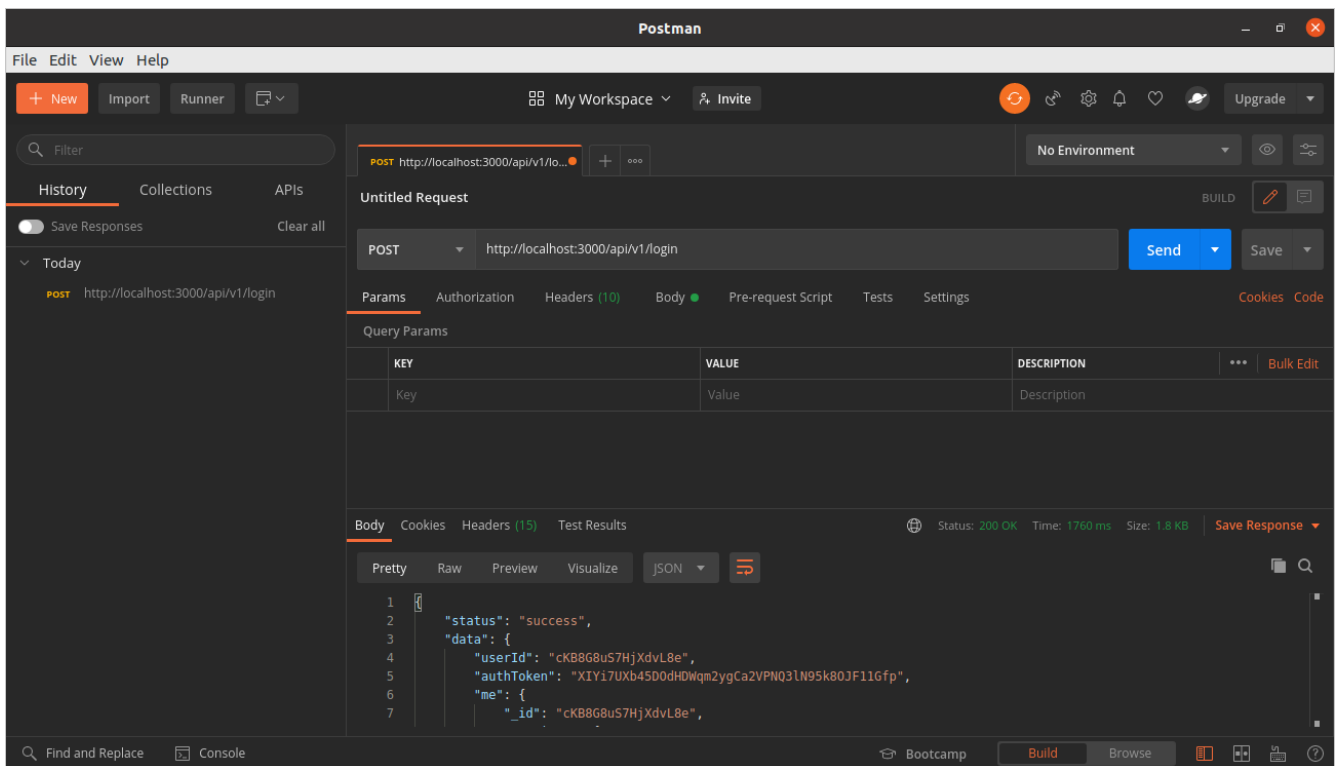
I used the below command

```
curl -X "POST" "http:localhost:3000/api/v1/login"
-H "Content-Type: application/json; charset=utf-8"
-d ${ "username": "ebunoyeyemi", "password": "Pa$$w0rD" }
```

I used the curl command in Postman by importing the command as in the image below. Go to Import, then Raw text and put the above command, then click send.

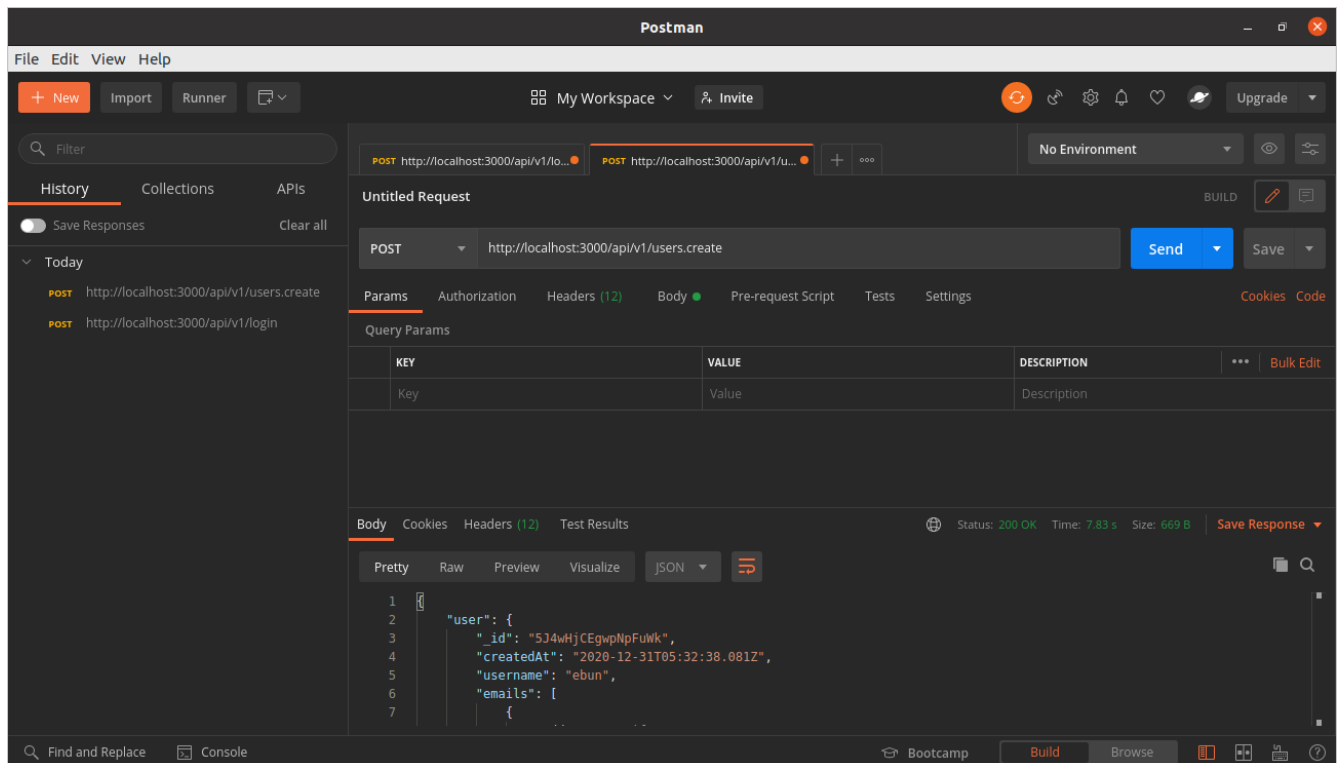


Then I was able to get the User ID and Auth Token as in the image below



1. To create a new user

```
curl -H "X-Auth-Token: XIYi7UXb45DOdHDWqm2ygCa2VPNQ3lN95k8OJF11Gfp"  
-H "X-User-Id: cKB8G8uS7HjXdvL8e"  
-H "Content-type:application/json"  
http://localhost:3000/api/v1/users.create  
-d '{"name": "Gift", "email": "gift@testuser.com", "password": "password", "username": "ebun"}'
```



```
{  
  "user": {  
    "_id": "5J4wHjCEgwpNpFuWk",  
    "createdAt": "2020-12-31T05:32:38.081Z",  
    "username": "ebun",  
    "emails": [  
      {  
        "address": "gift@testuser.com",  
        "verified": false  
      }  
    ],  
    "type": "user",  
    "status": "offline",  
    "active": true,  
    "_updatedAt": "2020-12-31T05:32:41.685Z",  
    "__rooms": [  
      "GENERAL"  
    ],  
    "roles": [  
      "GENERAL"  
    ]  
  },  
  "type": "user",  
  "status": "offline",  
  "active": true,  
  "_updatedAt": "2020-12-31T05:32:41.685Z",  
  "__rooms": [  
    "GENERAL"  
  ],  
  "roles": [  
    "GENERAL"  
  ]  
}
```

```

    "user"
  ],
  "name": "Gift",
  "settings": {}
},
"success": true
}

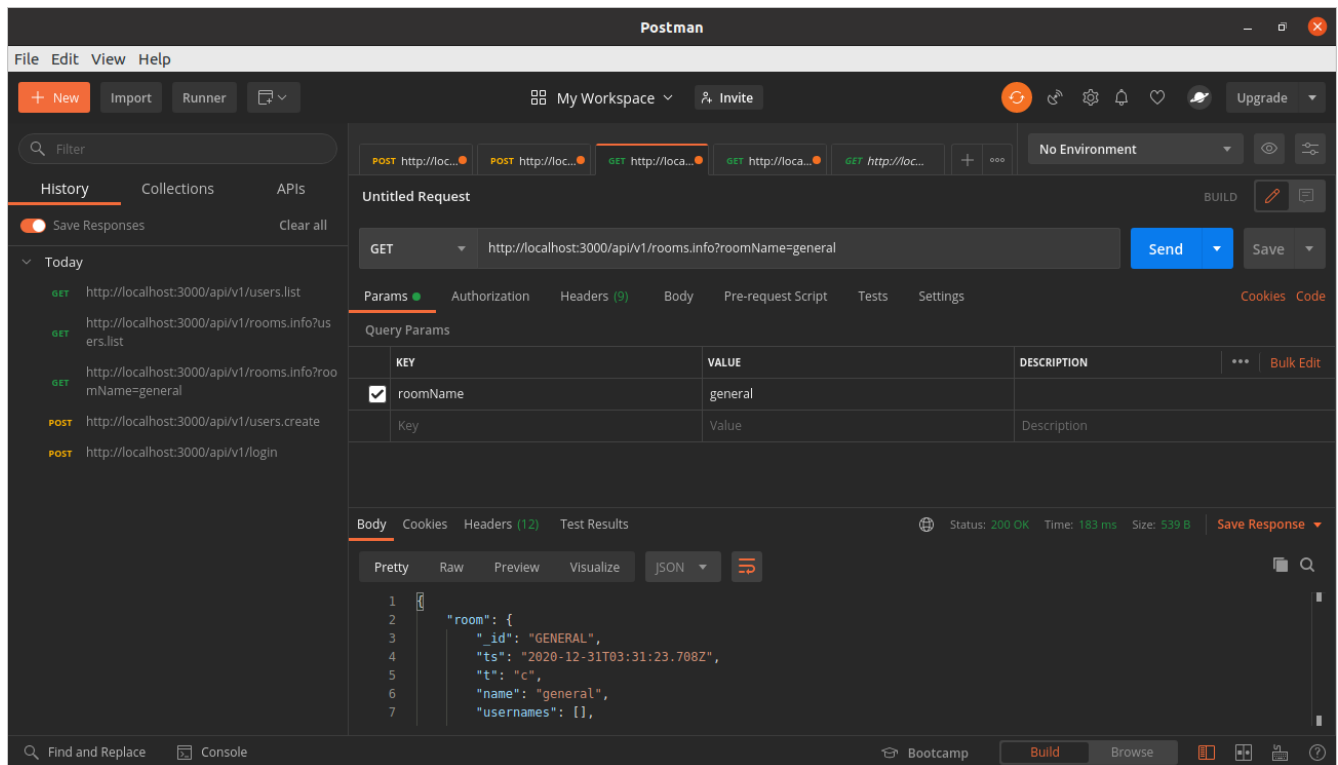
```

2. Get Room Information

```

curl -H "X-Auth-Token: XIYi7UXb45DOdHDWqm2ygCa2VPNQ3lN95k8OJF11Gfp"
-H "X-User-Id: cKB8G8uS7HjXdvL8e"
-H "Content-type: application/json"
http://localhost:3000/api/v1/rooms.info?roomName=general

```



```

{
  "room": {
    "_id": "GENERAL",
    "ts": "2020-12-31T03:31:23.708Z",
    "t": "c",
    "name": "general",
    "usernames": [],
    "msgs": 2,
    "usersCount": 2,
    "default": true,
    "_updatedAt": "2020-12-31T05:32:38.786Z"
  }
}

```

```

    },
    "success": true
  }
}

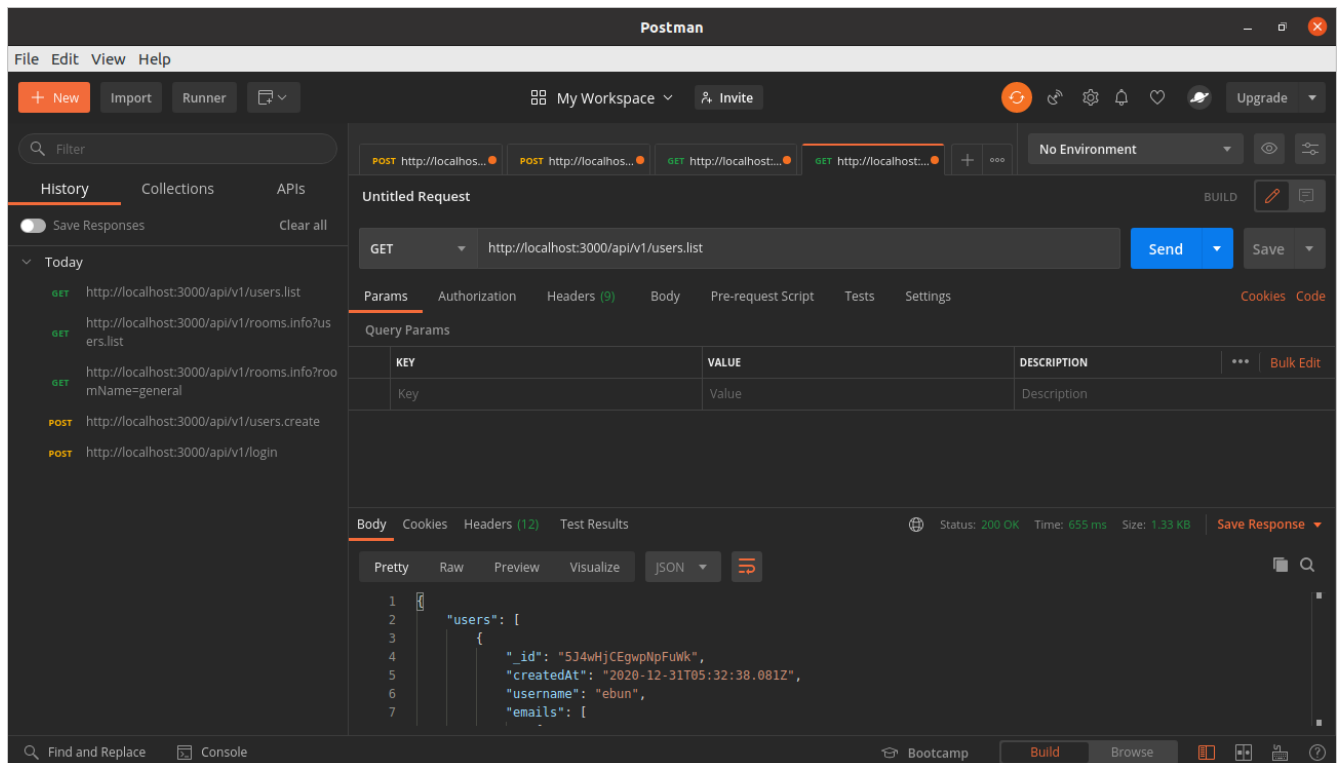
```

3. Get list of all user roles

```

url -H "X-Auth-Token: XIYi7UXb45DOdHDWqm2ygCa2VPNQ3lN95k8OJF11Gfp"
-H "X-User-Id: cKB8G8uS7HjXdvL8e"
-H "Content-type:application/json"
http://localhost:3000/api/v1/users.list

```



```

{
  "users": [
    {
      "_id": "5J4wHjCEgwpNpFuWk",
      "createdAt": "2020-12-31T05:32:38.081Z",
      "username": "ebun",
      "emails": [
        {
          "address": "gift@testuser.com",
          "verified": false
        }
      ],
      "type": "user",
      "status": "offline",
    }
  ]
}

```

```
"active": true,
"_updatedAt": "2020-12-31T05:32:41.685Z",
"__rooms": [
  "GENERAL"
],
"roles": [
  "user"
],
"name": "Gift",
"settings": {}
},
{
  "_id": "cKB8G8uS7HjXdvL8e",
  "createdAt": "2020-12-31T03:35:45.689Z",
  "emails": [
    {
      "address": "ebunoyeyemi@yahoo.com",
      "verified": false
    }
  ],
  "type": "user",
  "status": "away",
  "active": true,
  "_updatedAt": "2020-12-31T05:40:42.718Z",
  "roles": [
    "admin"
  ],
  "name": "Ebunoluwa",
  "lastLogin": "2020-12-31T05:24:13.873Z",
  "statusConnection": "away",
  "username": "ebunoyeyemi",
  "__rooms": [
    "GENERAL"
  ],
  "utcOffset": 0
},
{
  "_id": "rocket.cat",
  "createdAt": "2020-12-31T03:31:23.799Z",
  "avatarOrigin": "local",
  "name": "Rocket.Cat",
  "username": "rocket.cat",
  "status": "online",
  "statusDefault": "online",
  "utcOffset": 0,
  "active": true,
  "type": "bot",
  "_updatedAt": "2020-12-31T03:31:28.231Z",
  "roles": [
```

```
        "bot"  
      ],  
      "avatarETag": null  
    }  
  ],  
  "count": 3,  
  "offset": 0,  
  "total": 3,  
  "success": true  
}
```