

Backend Assignment

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Assumptions

1. While registering, a new user will have to fill the following details in the following json format shown

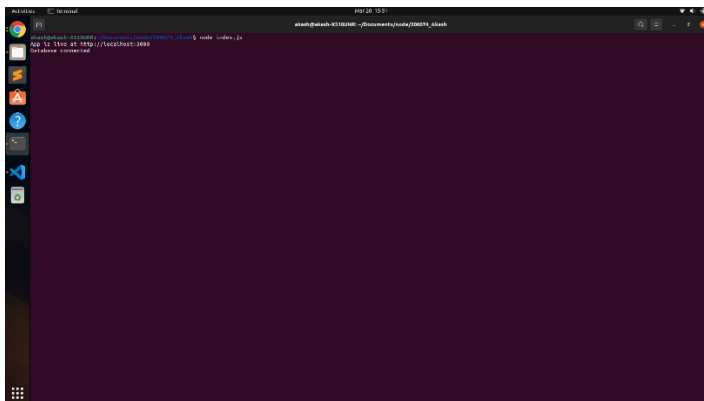
```
{
  "email": "user@domain.com (must be unique)",
  "password": "password string of minimum length 8",
  "name": "Full name of the user",
  "phone": "Phone number of the user",
  "address": {
    "line1": "Address line 1",
    "line2": "Address line 2 is optional",
    "city": "city of the User's address",
    "state": "state of the User",
    "pin": "6-digit pin code"
  }
}
```

While registering, one must provide all the details (except address line 2, as it is optional).

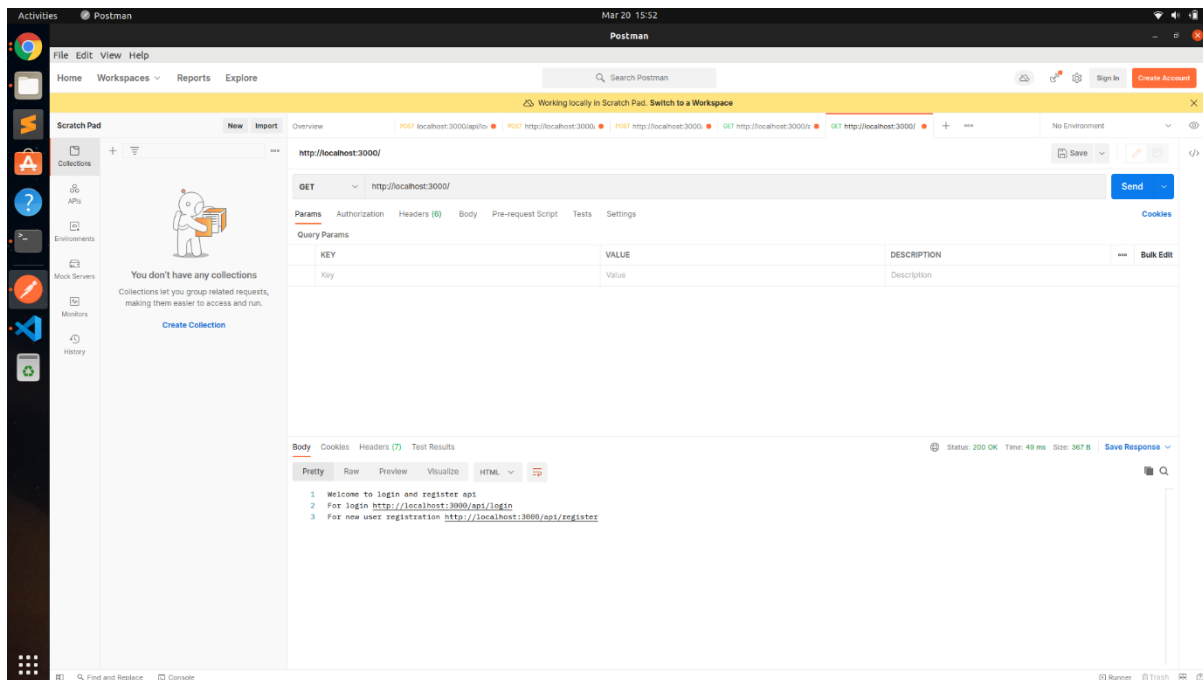
2. I have used **MongoDB** as my database system.
3. GET request for: /, /api/profile, /api/logout
4. POST request for: /api/register, /api/login
5. Default port used is 3000.

Setup

After installing the dependencies with `npm install`, we can run the program by `node index.js`

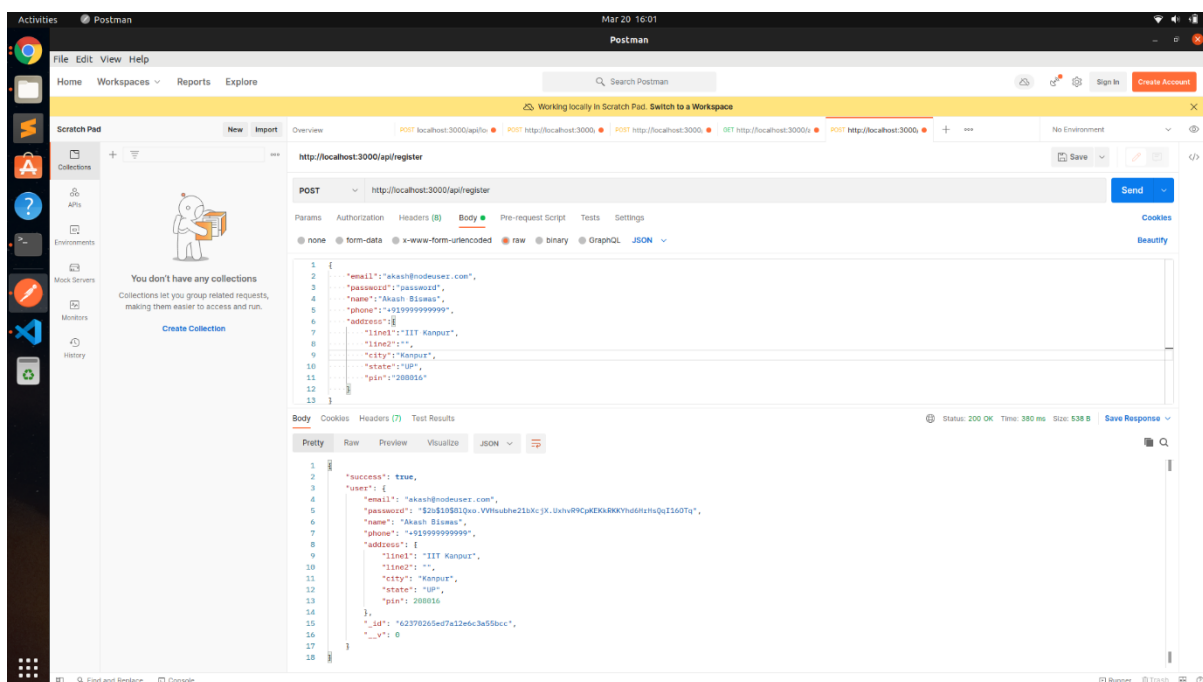


On doing so, we will get prompted that app is live and whether the database is connected. Once we send a **GET** request to <http://localhost:PORT/>, we get the following response which basically gives the links for login and registration.



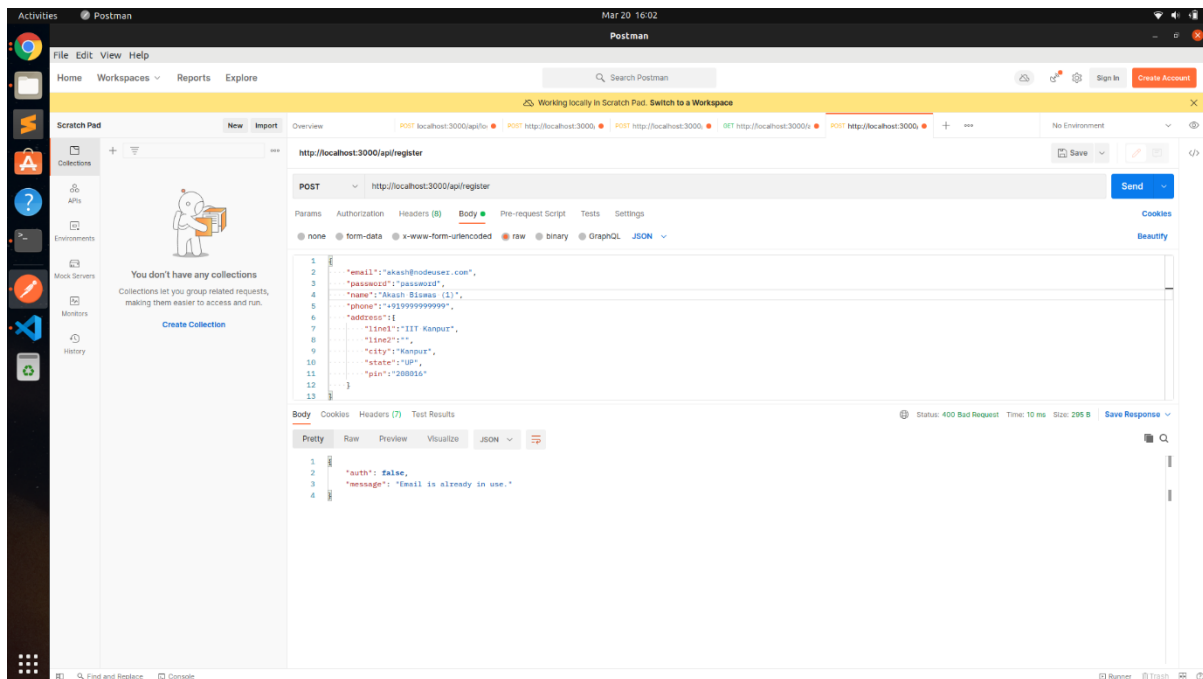
Registration (Signup)

We can **POST** request as follows to <http://localhost:PORT/api/register> to register a new user.



It successfully saves the user's email, password, name, phone no. and address into database and returns `"success":true`. But it doesn't return `"success":true`, in case it doesn't save the user's detail.

For example, if we try to register another user with the same email

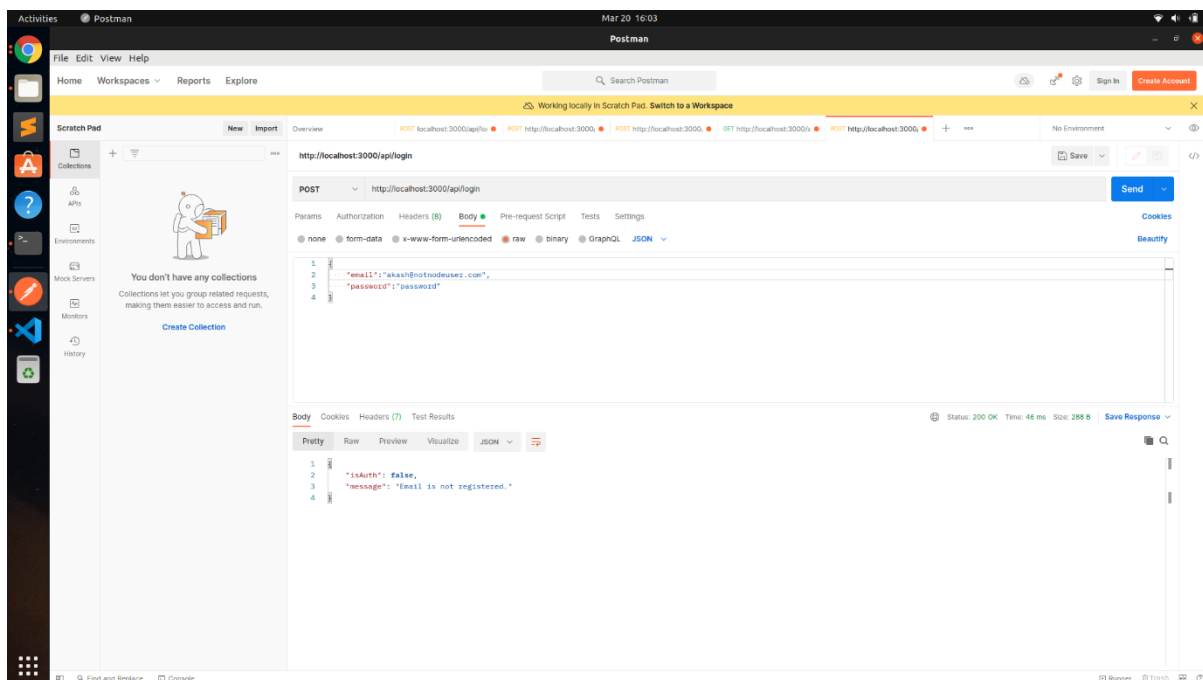


Here we return “auth”:false, as it first authenticates whether the email is already in use . Also we get a message saying the same.

Login

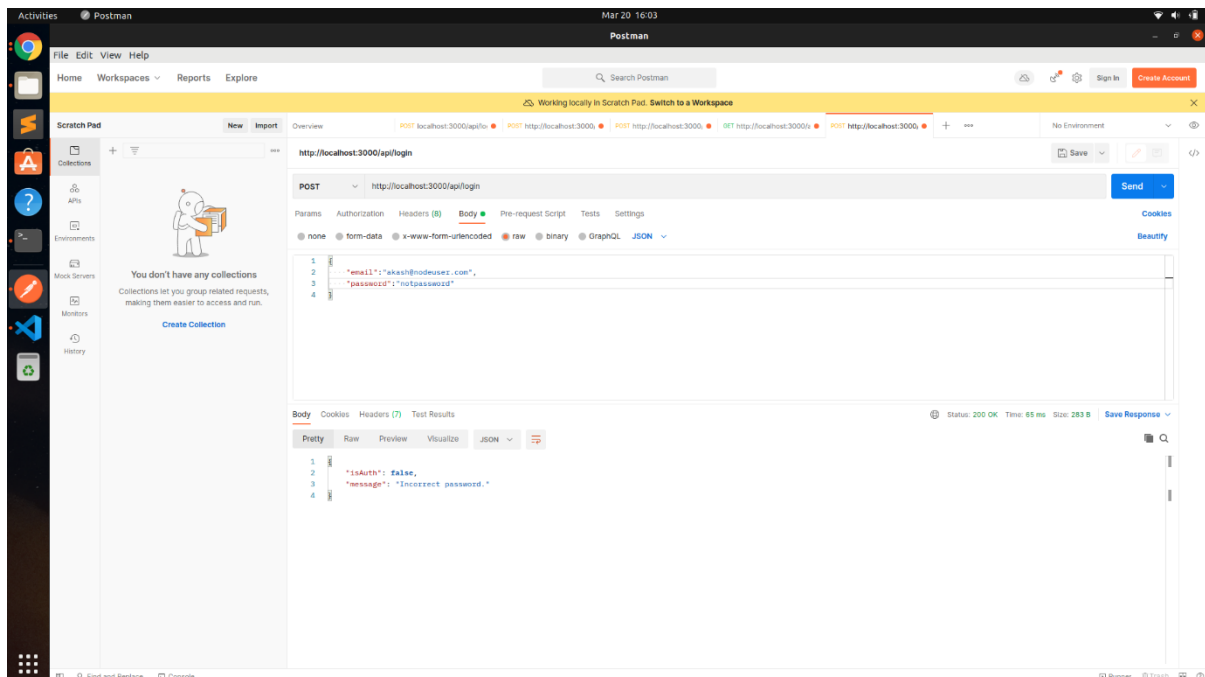
As, we have created a user, we can now **POST** request as follows to <http://localhost:PORT/api/> to sign in. But first we test the incorrect credentials.

In this, we have given a email with which no user is registered.



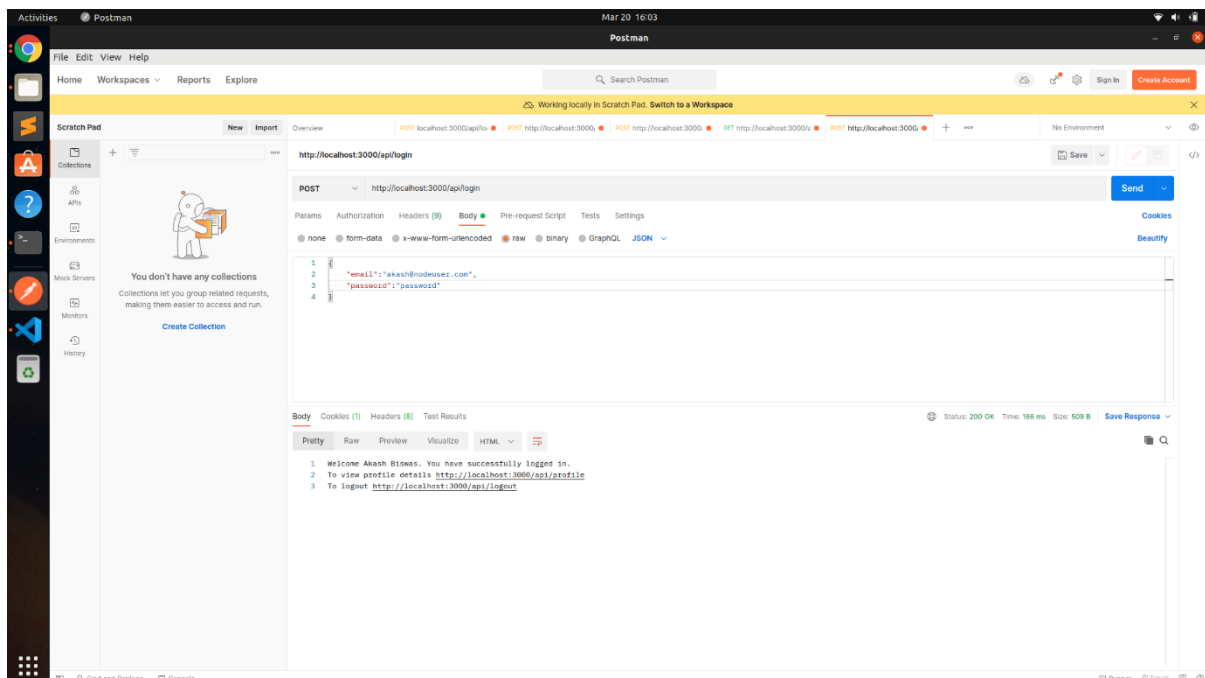
As expected, authentication fails, and we get a message saying, “Email is not registered”.

Now, we try an incorrect password with the email with which we registered the user.



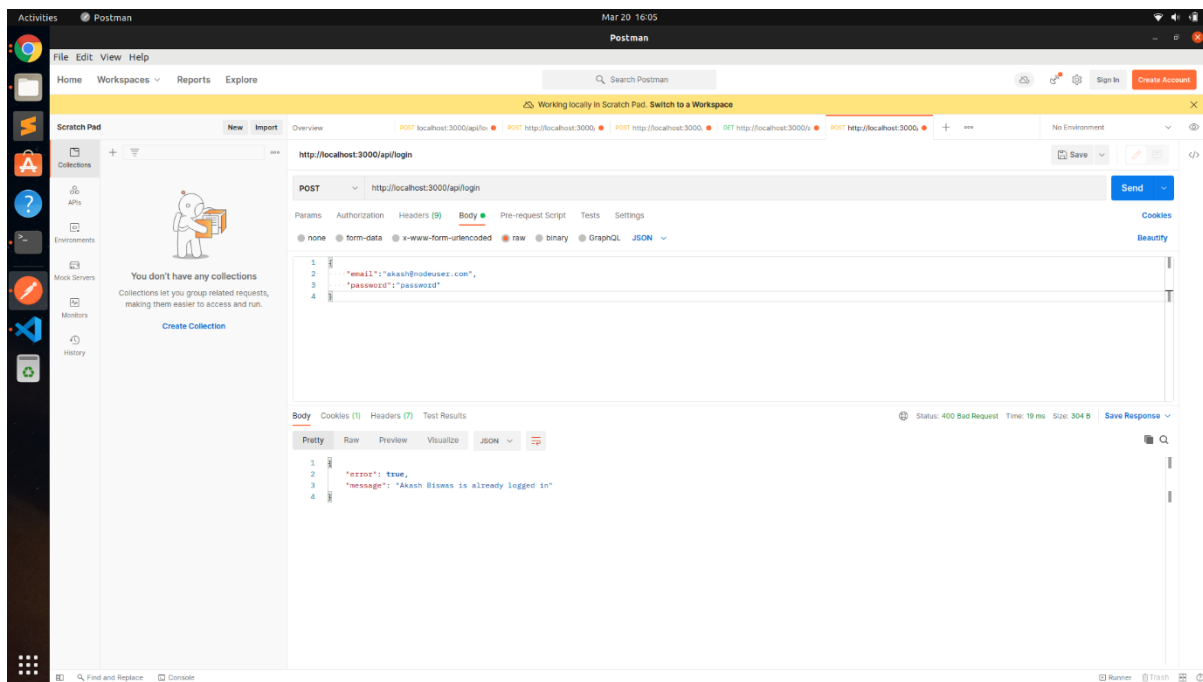
Here too the authentication fails, and we get the message explaining the cause which is “Incorrect password”.

Now we give the correct credentials.



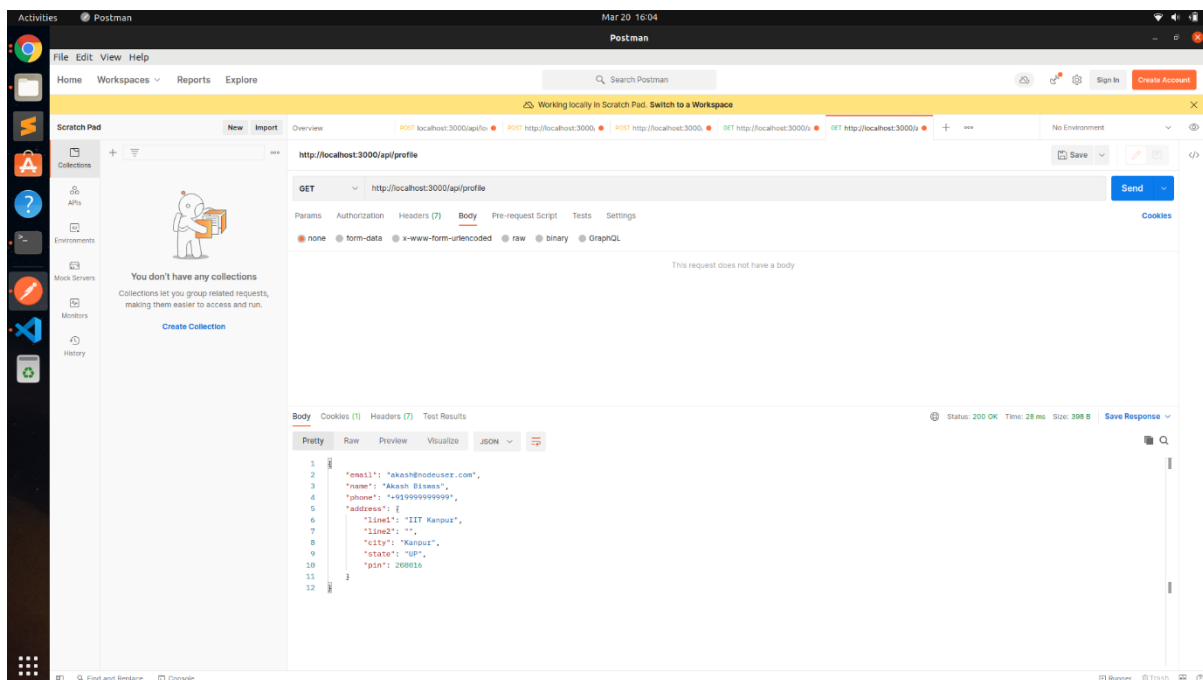
After verifying the credentials, we get a welcome message greeting the user by his **name**. Also, we get links to the profile and logout page.

Also, if we again try to login without first logging out, we get the following error and a message saying that the user is already logged in.

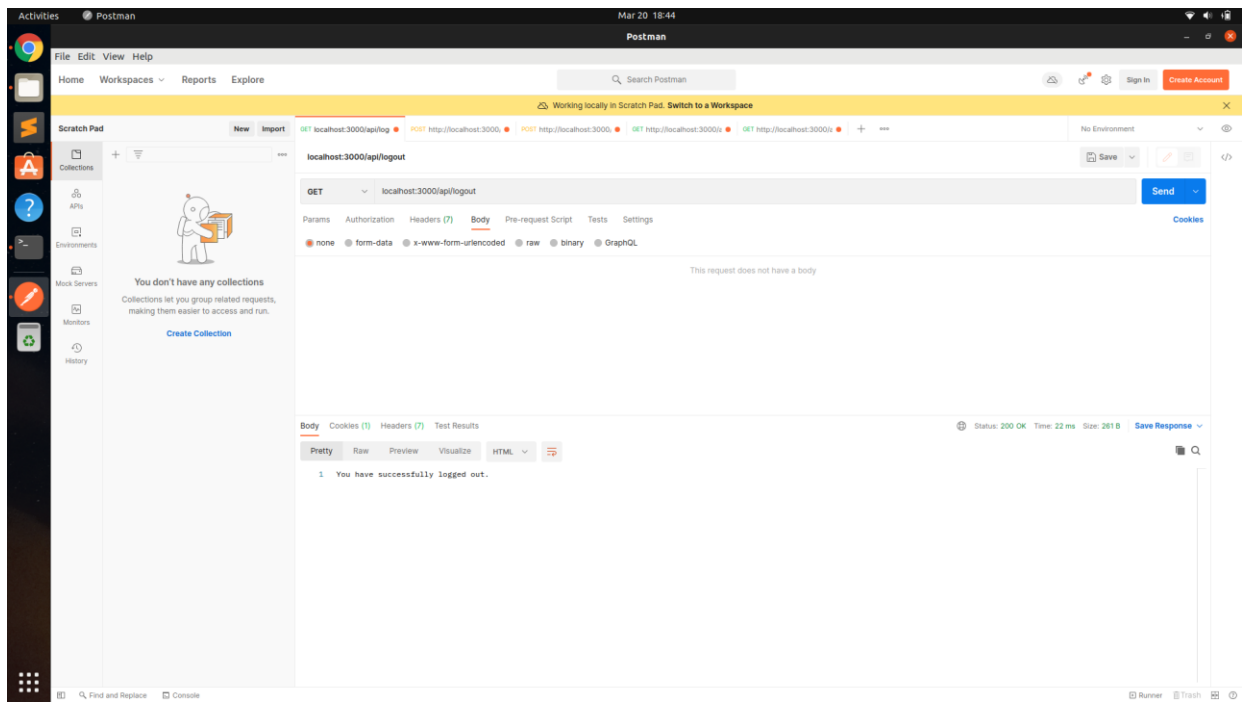


User profile details

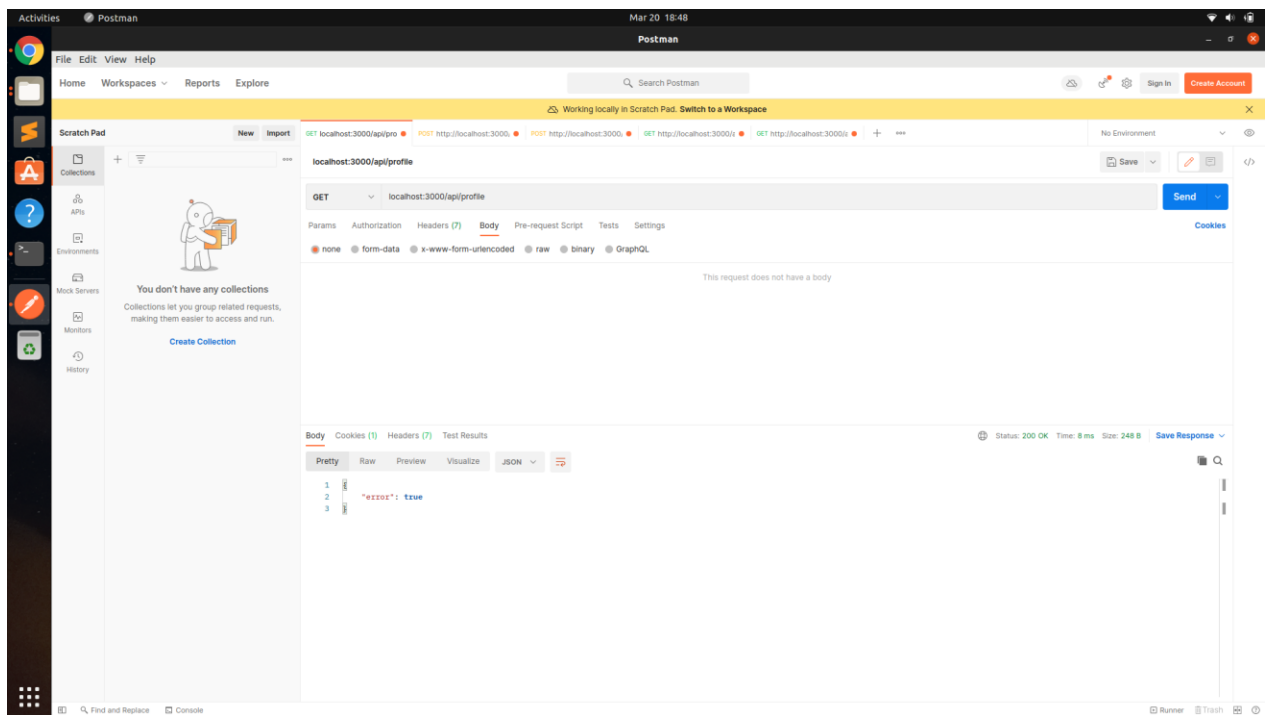
After successfully logging in, we can send a **GET** request to <http://localhost:PORT/api/profile> which sends the user details in json format in response.



Now to check whether the user's details are accessible only after signing in or not, we first logout from the current session by sending a **GET** request to <http://localhost/PORT/api/logout>



As, it shows the message saying that the user has successfully logged out, we now try sending a **GET** request to <http://localhost:PORT/api/profile>



As evident, we get an error if we try to access user details after logging out or without signing in.