

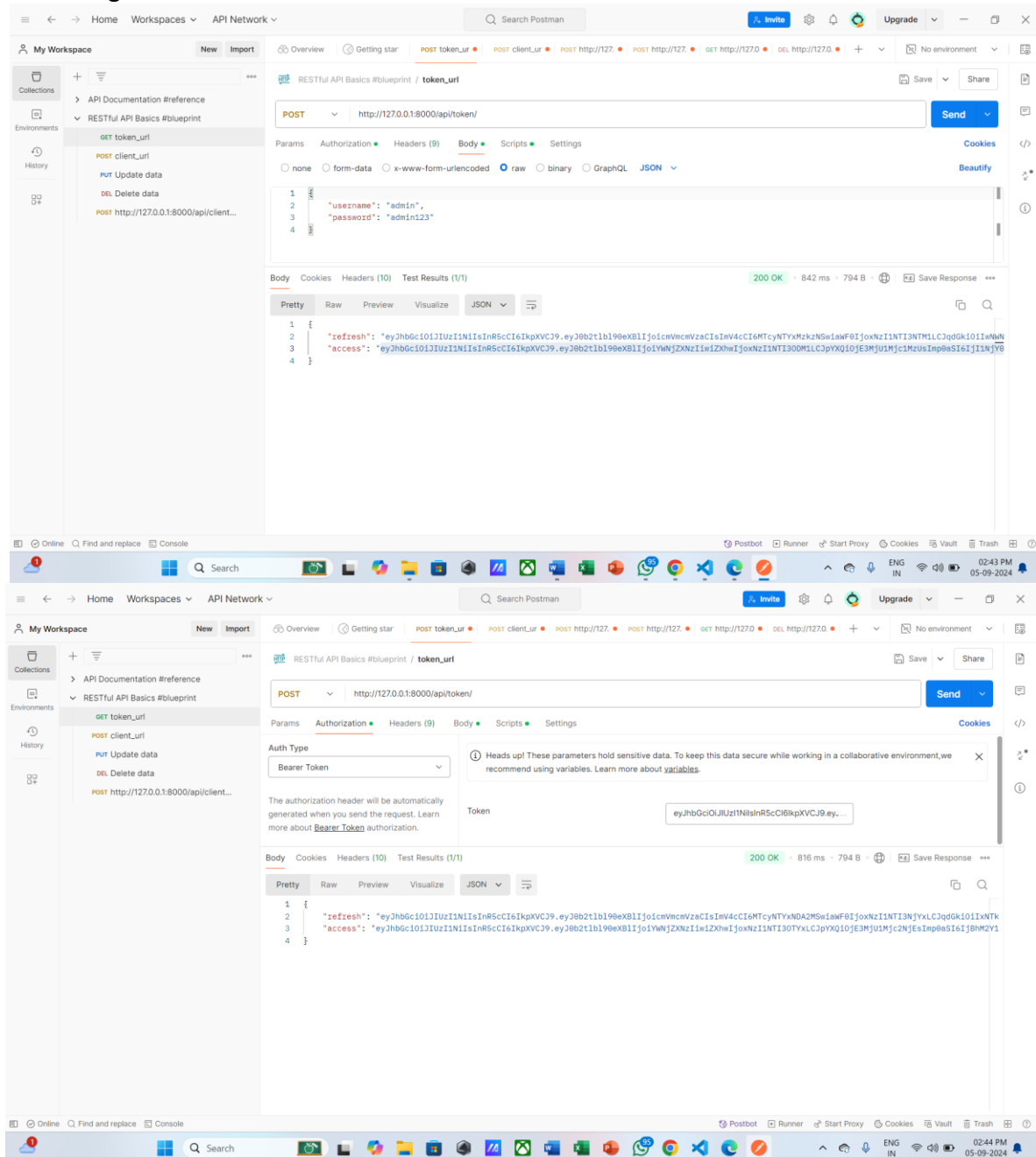
# Django Python Machine Test

- Considered the following scenario where we have 3 entities in our system.

1. User
2. Client
3. Project

- Performed the following tasks :

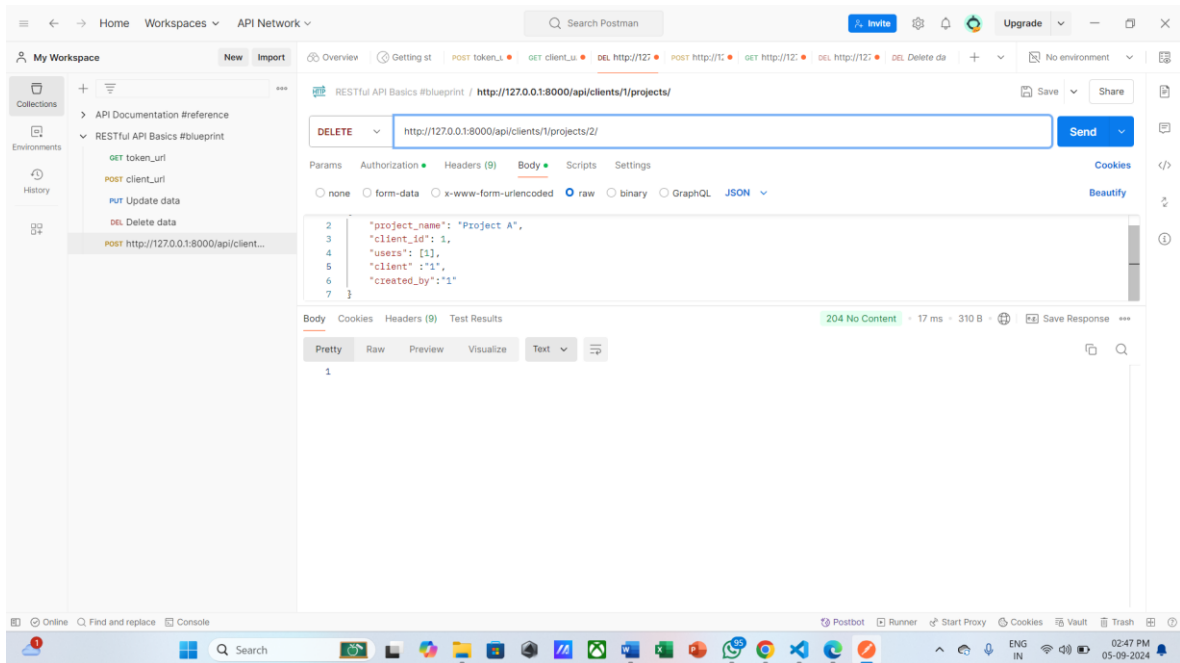
## 1.Token generation.



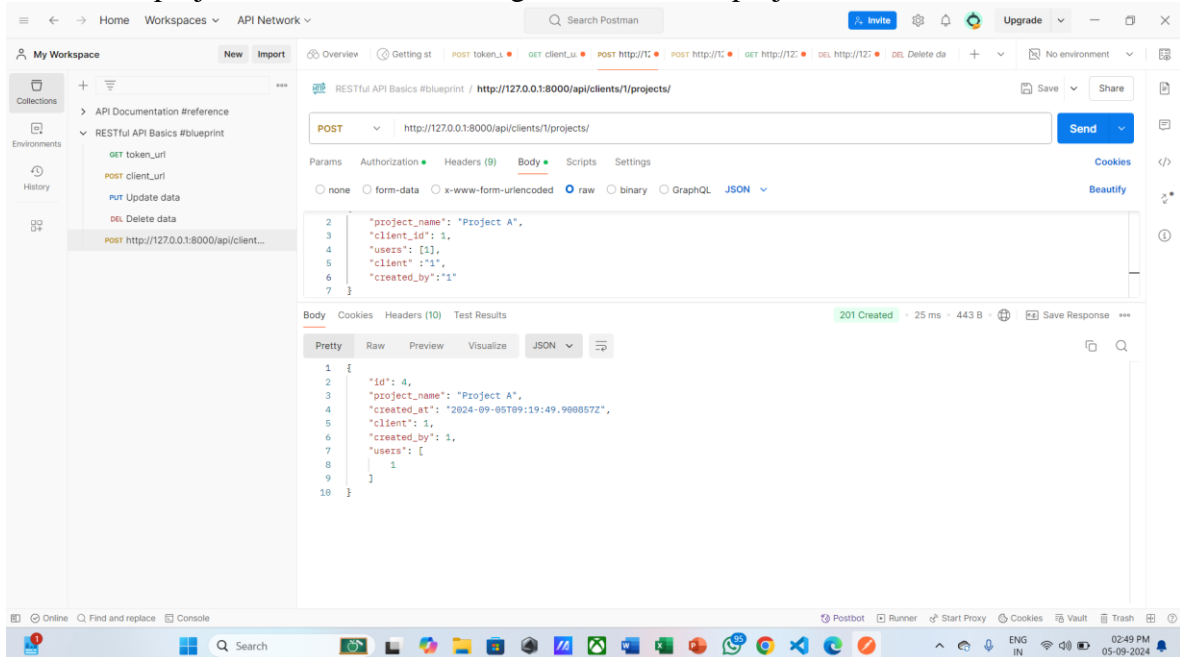
The screenshot displays the Postman application interface. On the left, the 'My Workspace' sidebar shows a collection of API requests under 'API Documentation #reference', including 'GET token\_url', 'POST client\_url', 'PUT Update data', and 'DEL Delete data'. The main area is configured for a POST request to 'http://127.0.0.1:8000/api/clients/'. The 'Authorization' tab is selected, showing a 'Bearer Token' header. A warning box indicates that sensitive data should be masked with variables. The 'Body' tab shows a JSON response with a 201 Created status. The bottom status bar shows the system clock at 02:42 PM on 05-09-2024.

The screenshot displays the Postman application interface. On the left, the 'My Workspace' sidebar shows a collection named 'RESTful API Basics #blueprint' with several requests, including 'GET token\_url', 'POST client\_url', 'PUT Update data', 'DELETE Delete data', and 'POST http://127.0.0.1:8000/api/client...'. The main area shows the 'GET http://127.0.0.1:8000/api/clients/' request. The 'Authorization' tab is active, displaying a 'Bearer Token' field. A warning box indicates that sensitive data should be kept secure. The 'Body' tab shows a JSON response with a 200 OK status. The bottom status bar shows the system clock at 02:45 PM on 05-09-2024.

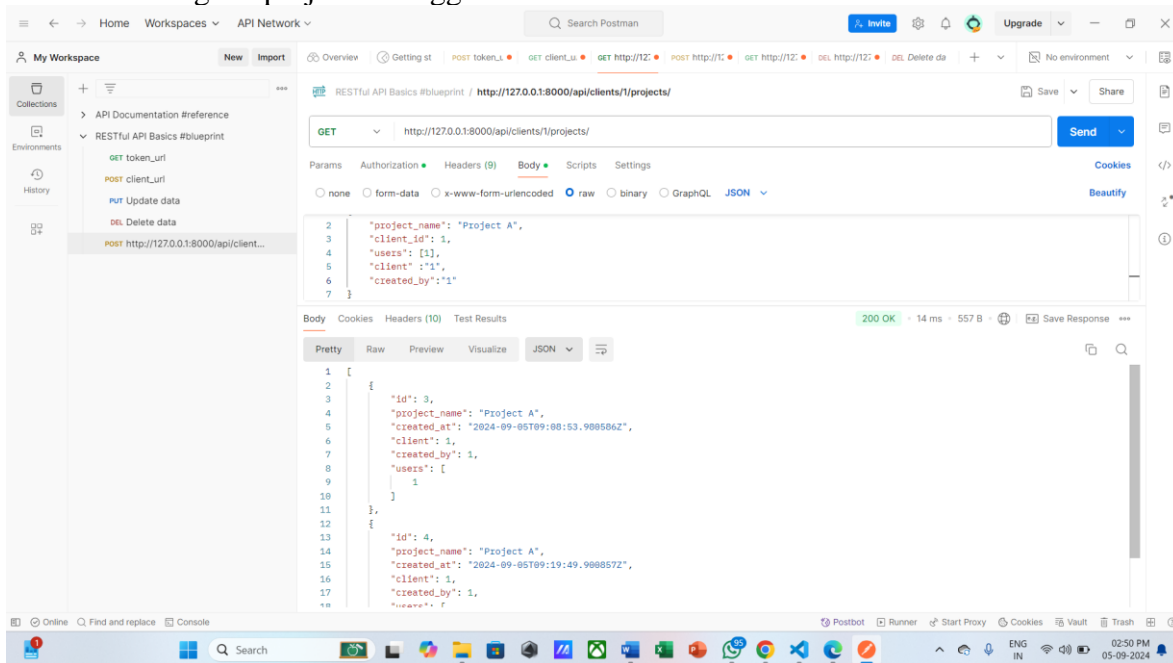
#### 4. Edit/Delete client info



#### 5. Add new projects for a client and assign users to those projects.



## 6.Retrieve assigned projects to logged-in users.



### ● Things considered :

1. The system has many users.
2. The system has many clients.
3. A client can have many projects
4. Multiple clients cannot be part of the same project.
4. A single project can be assigned to many users.

### Technical Requirements :

1. Use Django REST framework
2. Use **MySQL** or **Postgres** as DB (**No SQLite**)
3. Postman

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