

1. While I am running part 1 -> part1_.py at that time its creating table & Storing the data inside that tables.

pgAdmin 4

File Object Tools Help

Object Explorer

- Operators
- Procedures
- Sequences
- Tables (15)
 - api_customuser
 - api_customuser_groups
 - api_customuser_user_permissions
 - auth_group
 - auth_group_permissions
 - auth_permission
 - auth_user
 - auth_user_groups
 - auth_user_user_permissions
 - axis
 - django_admin_log
 - django_content_type
 - django_migrations
 - django_session
 - machine
 - Columns (6)
 - machine_id
 - machine_name
 - tool_capacity
 - tool_offset
 - feedrate
 - tool_in_use
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - Trigger Functions
 - Types
 - Views
- Subscriptions
- nmproject_z2may24
- postgres
- Login/Group Roles
- Tablespaces

public.machine/m... x public.auth_user/_... x public.machine/machine_data/postgres@PostgreSQL 16 x machine_data/pos... x

public.machine/machine_data/postgres@PostgreSQL 16

Query Query History

```
1 SELECT * FROM public.machine
2 ORDER BY machine_id ASC
```

Data Output Messages Notifications

	machine_id [PK] integer	machine_name character varying (255)	tool_capacity integer	tool_offset double precision	feedrate integer	tool_in_use integer
1	81258857	EMPX1	24	10.923280805536741	12013	3
2	81258858	EMPX2	24	11.67812434428905	15005	5
3	81258859	EMPX3	24	22.580827143065324	14526	5
4	81258860	EMPX4	24	25.867941370227197	11246	15
5	81258861	EMPX5	24	25.38208156717574	10876	7
6	81258862	EMPX6	24	11.878392431551443	18443	19
7	81258863	EMPX7	24	24.81028283285237	16885	15
8	81258864	EMPX8	24	23.48715221818533	11327	3
9	81258865	EMPX9	24	25.815831208864026	10095	22
10	81258866	EMPX10	24	8.668107304130878	15677	21
11	81258867	EMPX11	24	9.018832712547038	16509	11
12	81258868	EMPX12	24	36.9369877218154	19807	17
13	81258869	EMPX13	24	15.162250681920947	17443	6
14	81258870	EMPX14	24	25.518411870256752	11340	13
15	81258871	EMPX15	24	29.753610906045704	11837	8
16	81258872	EMPX16	24	31.06935475261865	10466	4
17	81258873	EMPX17	24	24.77101163515411	14949	7
18	81258874	EMPX18	24	37.570135629094445	17231	23
19	81258875	EMPX19	24	34.28624125546721	19136	10
20	81258876	EMPX20	24	33.34586449025777	17734	7

Total rows: 20 of 20 Query complete 00:00:00.204

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 - axis
 - Columns (11)
 - axis_id
 - axis_name
 - max_acceleration
 - max_velocity
 - actual_position
 - target_position
 - distance_to_go
 - homed
 - acceleration
 - velocity
 - machine_id
 - Constraints
 - Indexes
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public.machine/m... x public.auth_user/_... x public.machine/m... x machine_data/pos... x public.axis/machine_data/postgres@PostgreSQL 16 x

public.axis/machine_data/postgres@PostgreSQL 16

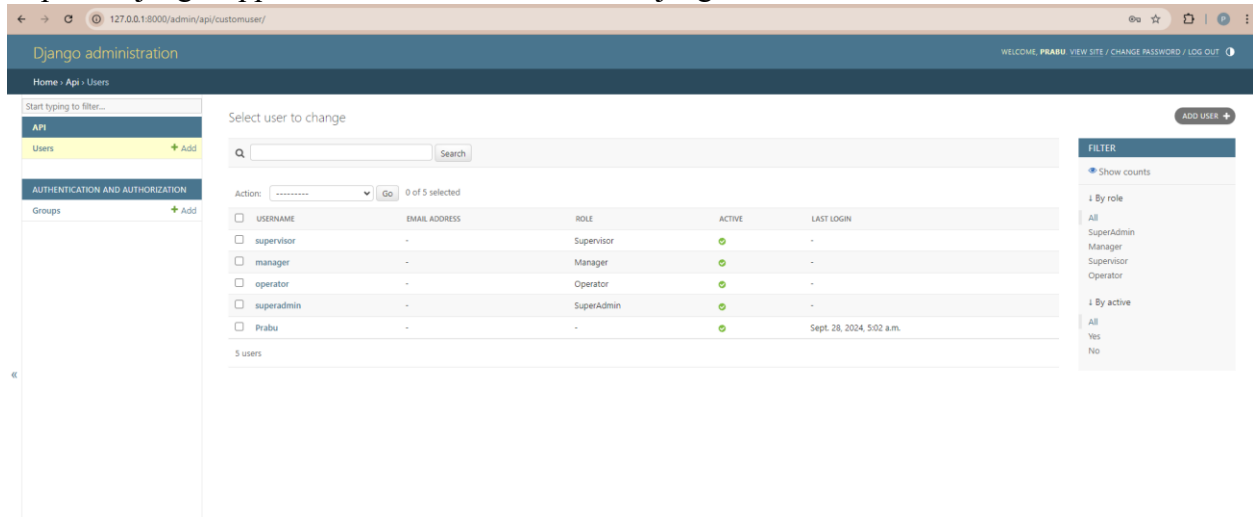
Query Query History

```
1 SELECT * FROM public.axis
2 ORDER BY axis_id ASC
```

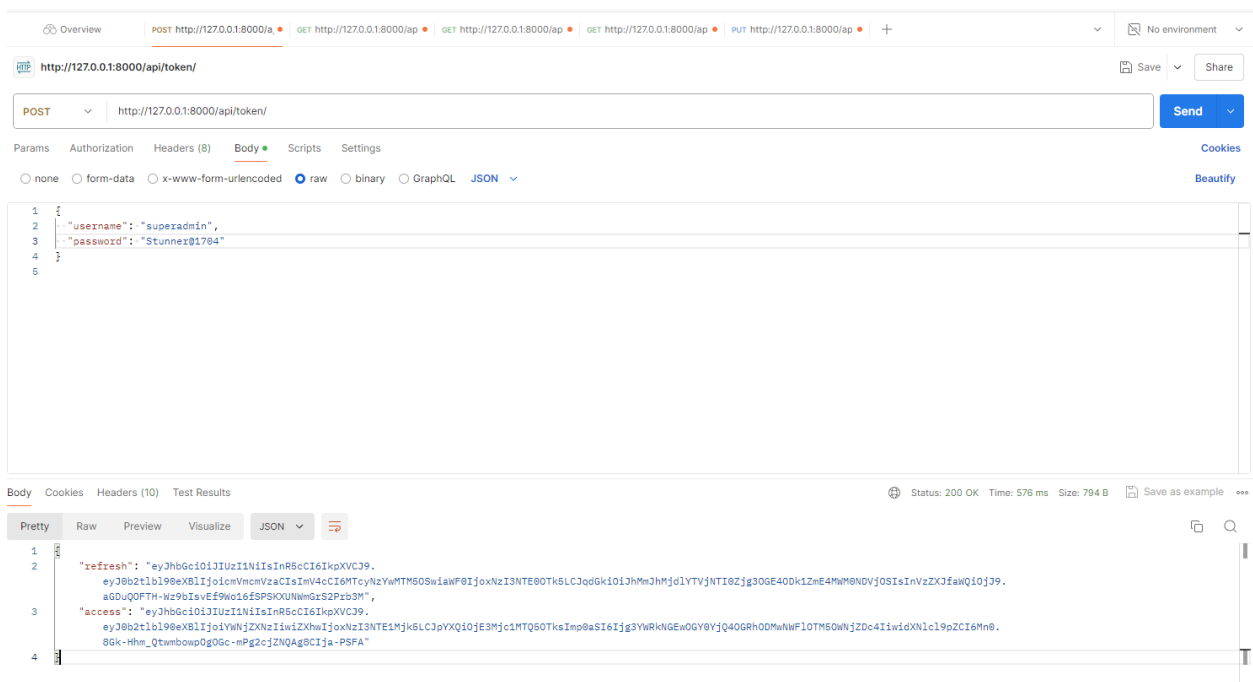
Data Output Messages Notifications

	axis_id [PK] integer	axis_name character varying (1)	max_acceleration double precision	max_velocity double precision	actual_position double precision	target_position double precision	distance_to_go double precision	homed boolean	acceleration double precision	velocity double precision	machine_id integer
1	1	X	200	200	102.48375641450657	100.12016745565347	-2.3635889588531995	true		145	51
2	2	Y	200	200	0.839977567690795	-151.9190903170459	-152.7590678847367	true		113	64
3	3	Z	200	200	91.30830679781207	104.69597462716564	13.387667829353575	true		120	43
4	4	A	200	200	-168.18680182610282	-116.77476078462468	51.41204104147815	false		138	69
5	5	C	200	200	173.6663194006367	47.63812690455174	-126.02850503551193	true		101	43
6	6	X	200	200	-59.88421805847646	175.17836802802174	235.06258608656938	true		116	63
7	7	Y	200	200	-151.80358942055466	-43.11822611240103	108.68536330815363	false		107	46
8	8	Z	200	200	-116.8746585969347	-64.4828129832095	52.391845613725195	false		132	78
9	9	A	200	200	-154.8474208442238	116.73146296514454	271.57888380936474	false		129	64
10	10	C	200	200	-176.55905274515726	-115.00750979566001	61.55154294949725	true		110	70
11	11	X	200	200	-48.12855770469933	78.94662526919763	147.07518297616696	true		138	70
12	12	Y	200	200	102.7029933732043	137.0205533570059	34.317614019688366	false		123	48
13	13	Z	200	200	-86.60378285567215	-57.84668541953809	28.75709743613406	true		142	66
14	14	A	200	200	-73.7607316989413	-4.518143258686877	69.24258844000725	false		128	61
15	15	C	200	200	123.82256418112837	40.72168294527296	-83.10088123585541	true		125	67
16	16	X	200	200	-124.14531162538745	172.08136347046798	296.2266750958554	true		146	64
17	17	Y	200	200	18.297663019534866	-92.31455510377705	-110.61221812331192	false		149	47
18	18	Z	200	200	-133.3839934881495	136.7405068539332	270.12450320274814	false		131	69
19	19	A	200	200	-19.619931699898956	-177.0419129922627	-157.42198129236374	false		137	40
20	20	C	200	200	-124.60789377565588	79.28574573624525	203.89363951190114	false		145	63
21	21	X	200	200	-82.32241266602368	-29.69455119983445	52.62786146618923	true		103	57

In part2 Django Application I am created user in Django admin



In this url <http://127.0.0.1:8000/api/token/> I am passing the superadmin credential at that time generation access token



After that in this url <http://127.0.0.1:8000/api/user/> I am displaying username and role

REST client interface showing a GET request to <http://127.0.0.1:8000/api/user/>. The request is successful (Status: 200 OK, Time: 30 ms, Size: 354 B). The response body is:

```
{"username": "superadmin", "role": "superadmin"}
```

In this url <http://127.0.0.1:8000/api/machines/> I am displaying the machine datas

REST client interface showing a GET request to <http://127.0.0.1:8000/api/machines/>. The request is successful (Status: 200 OK, Time: 31 ms, Size: 2.94 KB). The response body is:

```
[{"machine_id": "81258857", "machine_name": "EMPX1", "tool_capacity": 24, "tool_offset": 10923280805536741, "feedrate": 12013, "tool_in_use": 3}, {"machine_id": "81258858", "machine_name": "EMPX2", "tool_capacity": 24, "tool_offset": 11678124334428905, "feedrate": 15005, "tool_in_use": 3}, {"machine_id": "81258859", "machine_name": "EMPX3", "tool_capacity": 24, "tool_offset": 22580827143065324, "feedrate": 14526, "tool_in_use": 5}, {"machine_id": "81258860", "machine_name": "EMPX4", "tool_capacity": 24, "tool_offset": 25867941370227197, "feedrate": 11246, "tool_in_use": 15}, {"machine_id": "81258861", "machine_name": "EMPX5", "tool_capacity": 24, "tool_offset": 2538208156717574, "feedrate": 10876, "tool_in_use": 7}, {"machine_id": "81258862", "machine_name": "EMPX6", "tool_capacity": 24, "tool_offset": 118783924315151443, "feedrate": 18443, "tool_in_use": 19}, {"machine_id": "81258863", "machine_name": "EMPX7", "tool_capacity": 24, "tool_offset": 2481028283285237, "feedrate": 16885, "tool_in_use": 15}, {"machine_id": "81258864", "machine_name": "EMPX8", "tool_capacity": 24, "tool_offset": 2348715221818533, "feedrate": 11327, "tool_in_use": 3}, {"machine_id": "81258865", "machine_name": "EMPX9", "tool_capacity": 24, "tool_offset": 25815831208864026, "feedrate": 10095, "tool_in_use": 22}, {"machine_id": "81258866", "machine_name": "EMPX10", "tool_capacity": 24, "tool_offset": 8668107304130878, "feedrate": 15677, "tool_in_use": 21}, {"machine_id": "81258868", "machine_name": "EMPX12", "tool_capacity": 24, "tool_offset": 369369877218154, "feedrate": 19807, "tool_in_use": 17}, {"machine_id": "81258869", "machine_name": "EMPX13", "tool_capacity": 24, "tool_offset": 15162250681920947, "feedrate": 17443, "tool_in_use": 6}, {"machine_id": "81258870", "machine_name": "EMPX14", "tool_capacity": 24, "tool_offset": 25518411870256752, "feedrate": 11340, "tool_in_use": 13}, {"machine_id": "81258871", "machine_name": "EMPX15", "tool_capacity": 24, "tool_offset": 29753610906045704, "feedrate": 11837, "tool_in_use": 8}, {"machine_id": "81258872", "machine_name": "EMPX16", "tool_capacity": 24, "tool_offset": 3106935475261865, "feedrate": 10466, "tool_in_use": 4}, {"machine_id": "81258873", "machine_name": "EMPX17", "tool_capacity": 24, "tool_offset": 2477101163515411, "feedrate": 14949, "tool_in_use": 7}, {"machine_id": "81258874", "machine_name": "EMPX18", "tool_capacity": 24, "tool_offset": 37570135629094445, "feedrate": 17231, "tool_in_use": 23}, {"machine_id": "81258875", "machine_name": "EMPX19", "tool_capacity": 24, "tool_offset": 3428624125546721, "feedrate": 19136, "tool_in_use": 10}, {"machine_id": "81258876", "machine_name": "EMPX20", "tool_capacity": 24, "tool_offset": 3334586449025777, "feedrate": 17734, "tool_in_use": 7}, {"machine_id": "81258867", "machine_name": "EMPX11", "tool_capacity": 24, "tool_offset": 9018832712555556, "feedrate": 16509, "tool_in_use": 10}]
```

In this url <http://127.0.0.1:8000/api/machines/81258867/> I am getting machine details in superadmin login

The screenshot shows a REST client interface with a GET request to `http://127.0.0.1:8000/api/machines/81258867/`. The Authorization header is set to Bearer Token. The response status is 200 OK, and the body contains the following JSON data:

```
1 {
2   "machine_id": "81258867",
3   "machine_name": "EMPX11",
4   "tool_capacity": 24,
5   "tool_offset": 9.018832712555556,
6   "feedrate": 16509,
7   "tool_in_use": 10
8 }
```

Right now I am updating the machine data using PUT method in superadmin credential

The screenshot shows a REST client interface with a PUT request to `http://127.0.0.1:8000/api/machines/81258867/`. The request body is set to raw and contains the following JSON data:


```
1 {
2   "machine_id": "81258867",
3   "machine_name": "EMPX11",
4   "tool_capacity": 24,
5   "tool_offset": 9.018832712555556,
6   "feedrate": 16509,
7   "tool_in_use": 11
8 }
```

The response status is 200 OK, and the body contains the following JSON data:

```
1 {
2   "machine_id": "81258867",
3   "machine_name": "EMPX11",
4   "tool_capacity": 24,
5   "tool_offset": 9.018832712555556,
6   "feedrate": 16509,
7   "tool_in_use": 11
8 }
```

Also we able to delete that record But here I am not doing that.

In Operator Login we are not able to update I attach that screen also permission denied

 <http://127.0.0.1:8000/api/user/>

GET

http://127.0.0.1:8000/api/user/

ParamsAuthorizationHeaders (7)BodyScriptsSettings

Auth Type

Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#) authorization.

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using [variables](#).


Token

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1

BodyCookiesHeaders (10)Test Results

PrettyRawPreviewVisualize

```
{ "username": "operator", "role": "operator" }
```

 <http://127.0.0.1:8000/api/machines/81258867/>

Save

PUT

http://127.0.0.1:8000/api/machines/81258867/

Send

ParamsAuthorizationHeaders (9)BodyScriptsSettings

Auth Type

Bearer Token

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Token

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1

BodyCookiesHeaders (10)Test Results

PrettyRawPreviewVisualizeJSON

```
1 {
2   "detail": "Permission denied."
3 }
```

Status: 403 ForbiddenTime: 31 msSize: 360 BSave as example

For Web socket connection I temporarily used one simple html using javascript I gave static value at the time its hitting working fine

