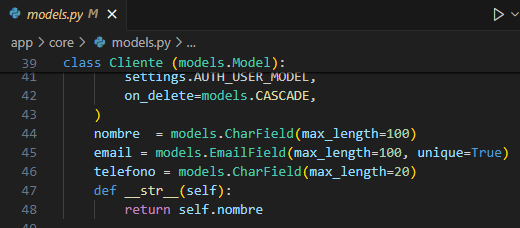
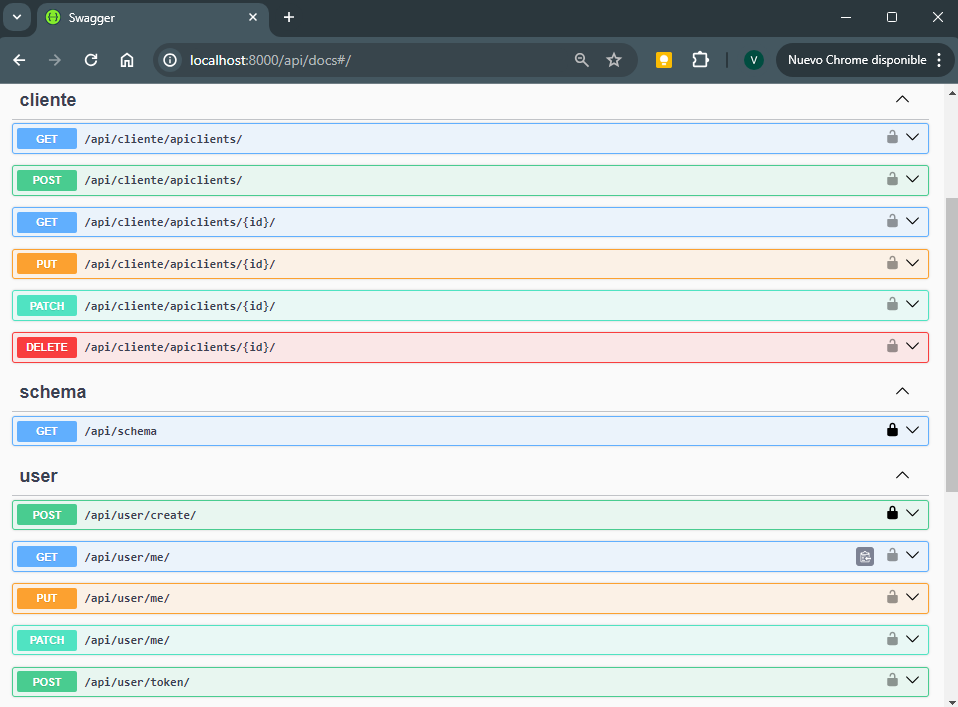
**RETO 1: DESARROLLO DE UN API REST CON DJANGO Y DJANGO REST FRAMEWORK**

**VICTOR GALINDO CAVERO**

1. Configura un entorno de desarrollo utilizando Django y Django REST Framework. Cliente. **(5 puntos)**

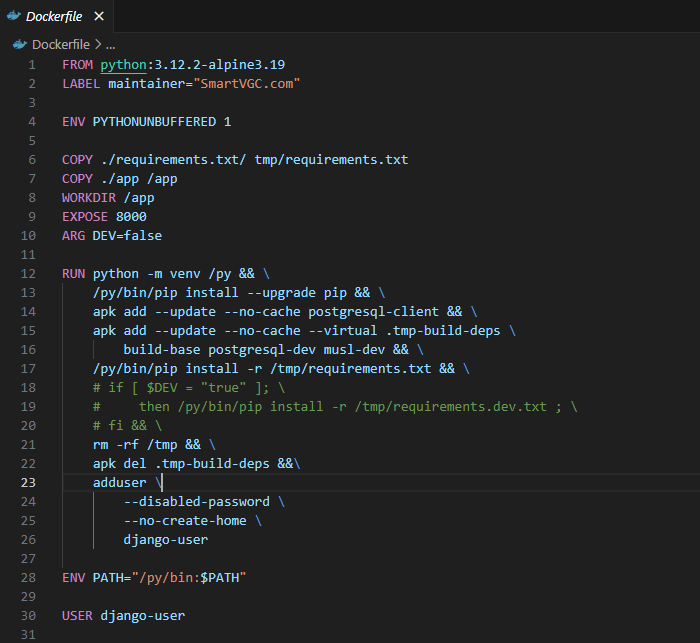
****

1. **API REST:**

****

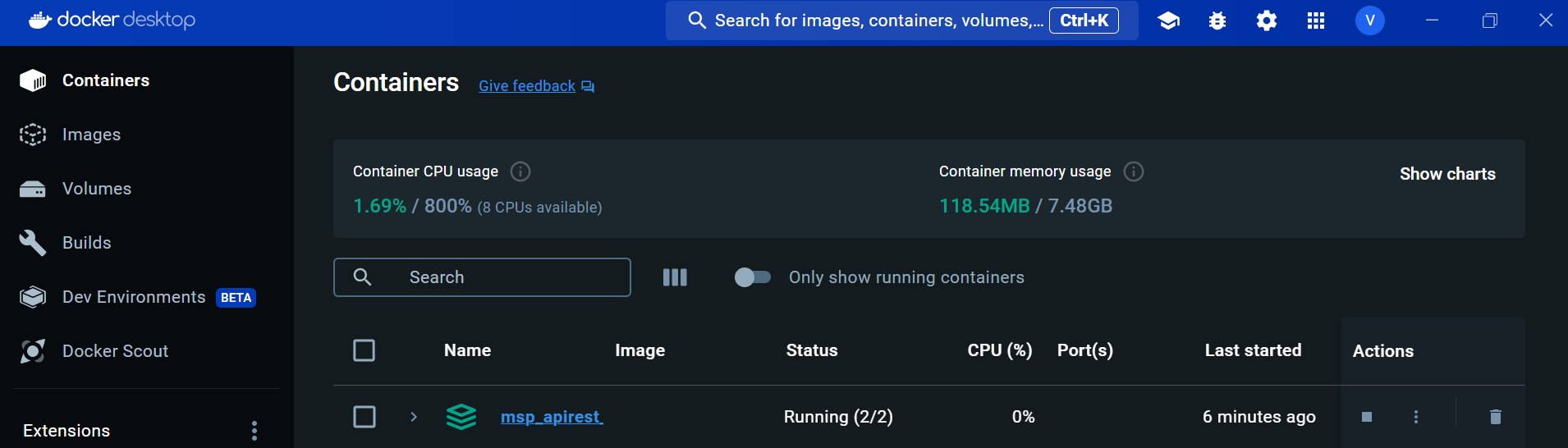
1. **Contenedor Docker:**

**Dockerfile:**

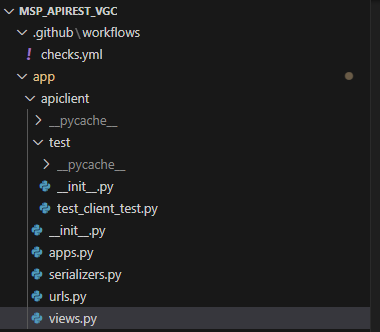
****

**Docker-Compose: Port mapping**

****

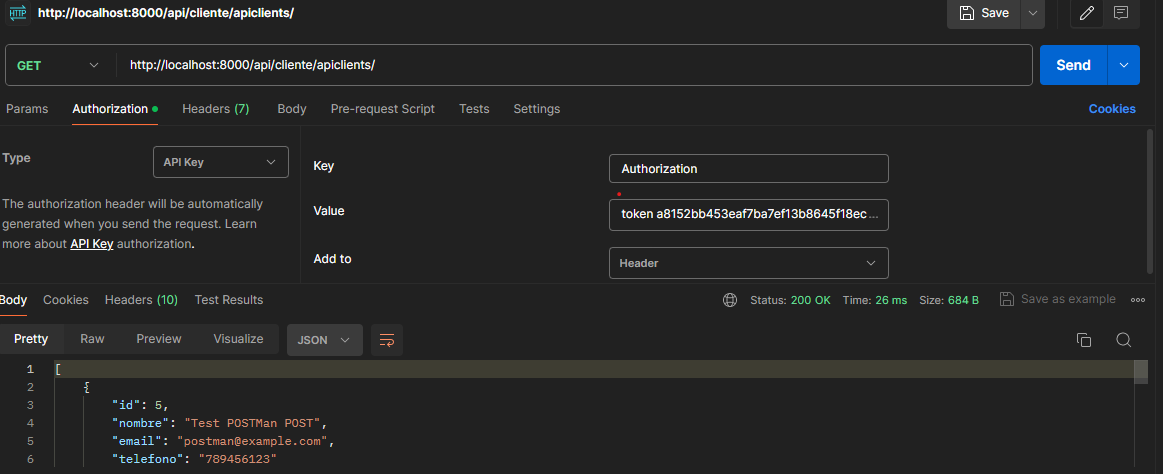
****

1. **Implementa las vistas y serializadores**

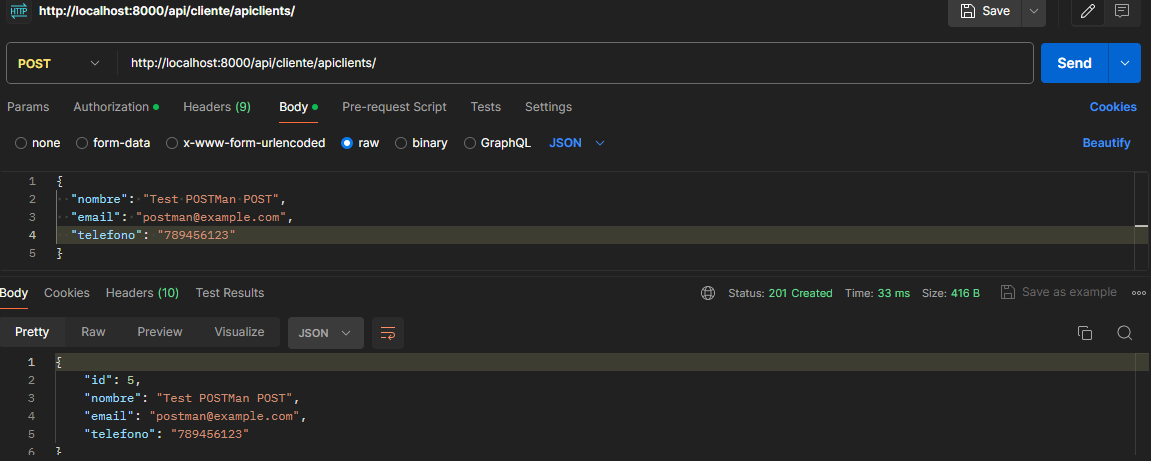
****

1. **Prueba cada de las operaciones CRUD haciendo uso de Postman**

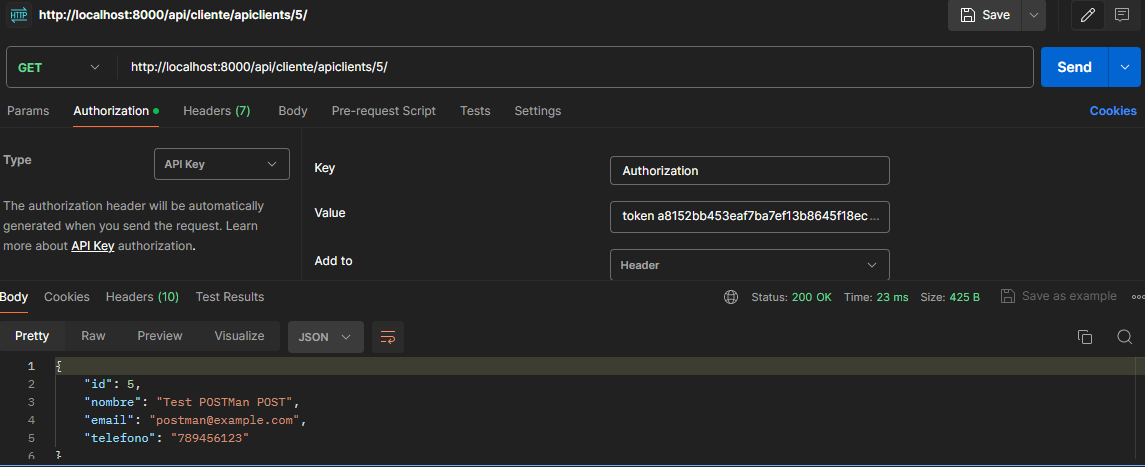
**GET**

****

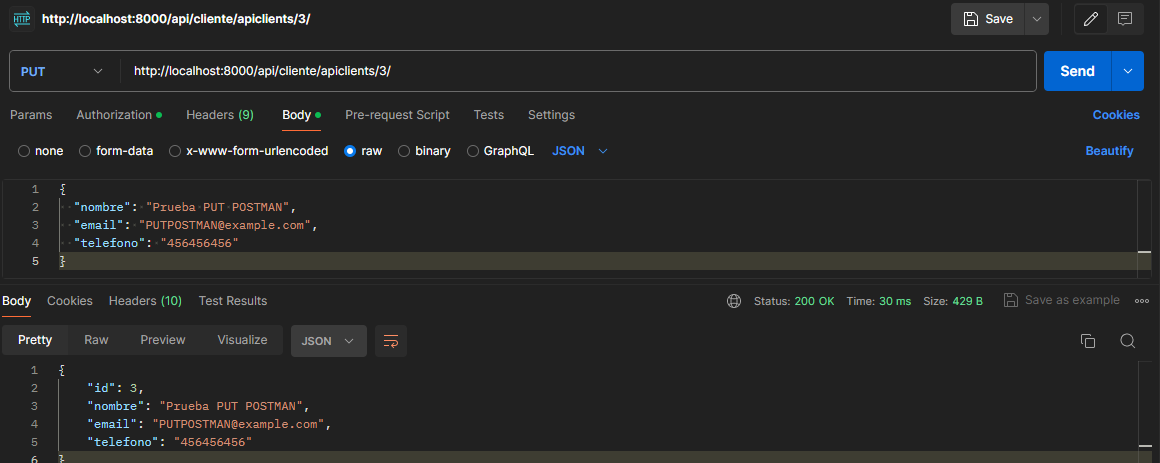
**POST**

****

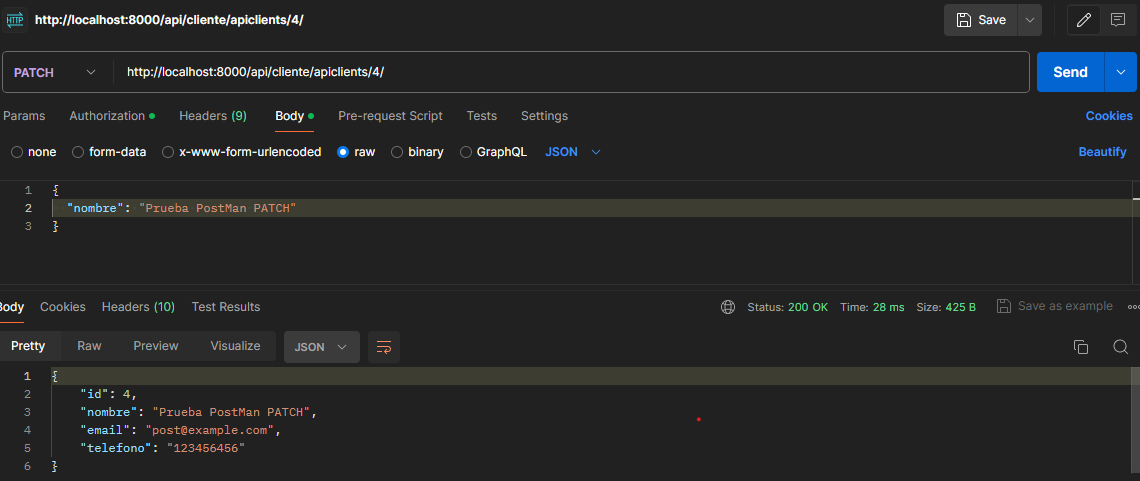
**GET BY ID**

****

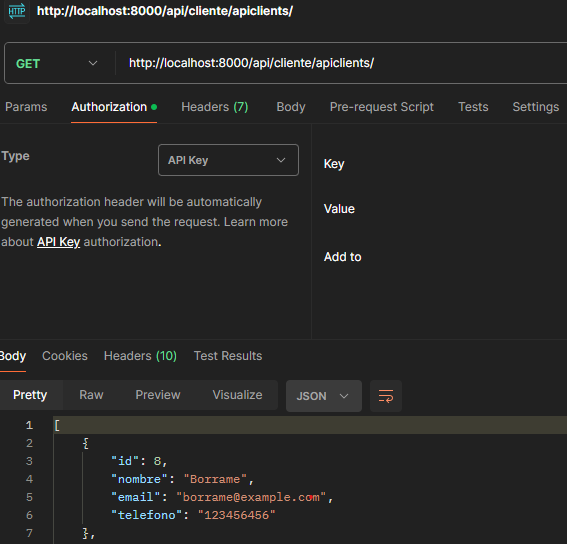
**PUT**

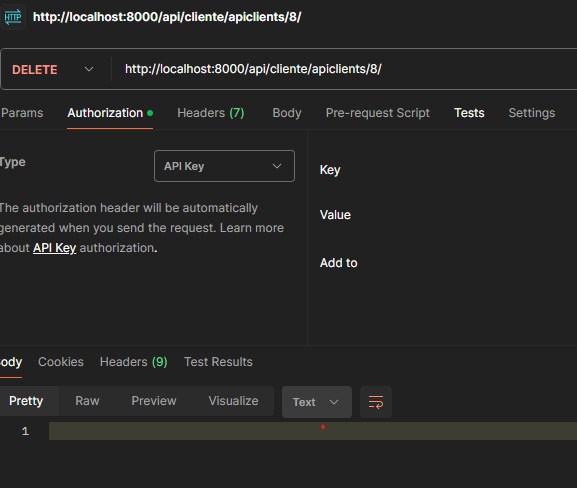
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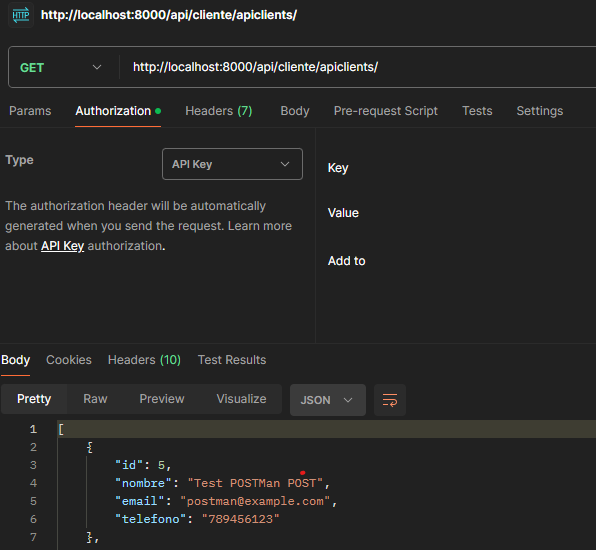
**PATCH**

****

**DELETE**

****

****

****

**Documenta TU API**

****

**Realiza un unit\_test de nombre cliente\_test.py (test\_cliente\_test) para validar la API**

****

**Found 29 test(s).**

**Creating test database for alias 'default'...**

**System check identified no issues (0 silenced).**

**E.F....E.......F.F.........Waiting for database..**

**Database unavailable, waiting 1 second...**

**Database unavailable, waiting 1 second...**

**Database unavailable, waiting 1 second...**

**Database unavailable, waiting 1 second...**

**Database unavailable, waiting 1 second...**

**Database available**

**.Waiting for database..**

**Database available**

**.**

**======================================================================**

**ERROR: test\_client\_list\_limited\_to\_user (apiclient.test.test\_client\_test.PrivateClientpiTests.test\_client\_list\_limited\_to\_user)**

**Test list of clients is limited to authenticated user.**

**----------------------------------------------------------------------**

**Traceback (most recent call last):**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 105, in \_execute**

**return self.cursor.execute(sql, params)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**psycopg2.errors.UniqueViolation: duplicate key value violates unique constraint "core\_cliente\_email\_key"**

**DETAIL: Key (email)=(Sample@gmail.com) already exists.**

**The above exception was the direct cause of the following exception:**

**Traceback (most recent call last):**

**File "/app/apiclient/test/test\_client\_test.py", line 80, in test\_client\_list\_limited\_to\_user**

**create\_client(user=self.user)**

**File "/app/apiclient/test/test\_client\_test.py", line 34, in create\_client**

**client = Cliente.objects.create(user=user, \*\*defaults)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/manager.py", line 87, in manager\_method**

**return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/query.py", line 679, in create**

**obj.save(force\_insert=True, using=self.db)**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 822, in save**

**self.save\_base(**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 909, in save\_base**

**updated = self.\_save\_table(**

**^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 1067, in \_save\_table**

**results = self.\_do\_insert(**

**^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 1108, in \_do\_insert**

**return manager.\_insert(**

**^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/manager.py", line 87, in manager\_method**

**return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/query.py", line 1847, in \_insert**

**return query.get\_compiler(using=using).execute\_sql(returning\_fields)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/sql/compiler.py", line 1823, in execute\_sql**

**cursor.execute(sql, params)**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 79, in execute**

**return self.\_execute\_with\_wrappers(**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 92, in \_execute\_with\_wrappers**

**return executor(sql, params, many, context)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 100, in \_execute**

**with self.db.wrap\_database\_errors:**

**File "/py/lib/python3.12/site-packages/django/db/utils.py", line 91, in \_\_exit\_\_**

**raise dj\_exc\_value.with\_traceback(traceback) from exc\_value**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 105, in \_execute**

**return self.cursor.execute(sql, params)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**django.db.utils.IntegrityError: duplicate key value violates unique constraint "core\_cliente\_email\_key"**

**DETAIL: Key (email)=(Sample@gmail.com) already exists.**

**======================================================================**

**ERROR: test\_retrieve\_clients (apiclient.test.test\_client\_test.PrivateClientpiTests.test\_retrieve\_clients)**

**Test retrieving a list of clients.**

**----------------------------------------------------------------------**

**Traceback (most recent call last):**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 105, in \_execute**

**return self.cursor.execute(sql, params)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**psycopg2.errors.UniqueViolation: duplicate key value violates unique constraint "core\_cliente\_email\_key"**

**DETAIL: Key (email)=(Sample@gmail.com) already exists.**

**The above exception was the direct cause of the following exception:**

**Traceback (most recent call last):**

**File "/app/apiclient/test/test\_client\_test.py", line 67, in test\_retrieve\_clients**

**create\_client(user=self.user)**

**File "/app/apiclient/test/test\_client\_test.py", line 34, in create\_client**

**client = Cliente.objects.create(user=user, \*\*defaults)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/manager.py", line 87, in manager\_method**

**return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/query.py", line 679, in create**

**obj.save(force\_insert=True, using=self.db)**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 822, in save**

**self.save\_base(**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 909, in save\_base**

**updated = self.\_save\_table(**

**^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 1067, in \_save\_table**

**results = self.\_do\_insert(**

**^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/base.py", line 1108, in \_do\_insert**

**return manager.\_insert(**

**^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/manager.py", line 87, in manager\_method**

**return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/query.py", line 1847, in \_insert**

**return query.get\_compiler(using=using).execute\_sql(returning\_fields)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/models/sql/compiler.py", line 1823, in execute\_sql**

**cursor.execute(sql, params)**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 79, in execute**

**return self.\_execute\_with\_wrappers(**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 92, in \_execute\_with\_wrappers**

**return executor(sql, params, many, context)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 100, in \_execute**

**with self.db.wrap\_database\_errors:**

**File "/py/lib/python3.12/site-packages/django/db/utils.py", line 91, in \_\_exit\_\_**

**raise dj\_exc\_value.with\_traceback(traceback) from exc\_value**

**File "/py/lib/python3.12/site-packages/django/db/backends/utils.py", line 105, in \_execute**

**return self.cursor.execute(sql, params)**

**^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^**

**django.db.utils.IntegrityError: duplicate key value violates unique constraint "core\_cliente\_email\_key"**

**DETAIL: Key (email)=(Sample@gmail.com) already exists.**

**=============================================================**

**FAIL:test\_create\_client (apiclient.test.test\_client\_test.PrivateClientpiTests.test\_create\_client)**

**Test creating a client.**

**----------------------------------------------------------------------**

**Traceback (most recent call last):**

**File "/app/apiclient/test/test\_client\_test.py", line 108, in test\_create\_client**

**self.assertEqual(res.status\_code, status.HTTP\_201\_CREATED)**

**AssertionError: 400 != 201**

**=============================================================**

**FAIL: test\_new\_user\_email\_normalized (core.test.test\_models.ModelTests.test\_new\_user\_email\_normalized)**

**----------------------------------------------------------------------**

**Traceback (most recent call last):**

**File "/app/core/test/test\_models.py", line 24, in test\_new\_user\_email\_normalized**

**self.assertEqual(user.email, expected)**

**AssertionError: 'VgalindoC@email.com' != 'vgalindoc@email.com'**

**- VgalindoC@email.com**

**? ^ ^**

**+ vgalindoc@email.com**

**? ^ ^**

**=============================================================**

**FAIL: test\_post\_me\_not\_allowed (user.test.test\_user\_api.PrivateUserApiTests.test\_post\_me\_not\_allowed)**

**----------------------------------------------------------------------**

**Traceback (most recent call last):**

**File "/app/user/test/test\_user\_api.py", line 118, in test\_post\_me\_not\_allowed**

**self.assertEqual(res.status\_code, status.HTTP\_405\_METHOD\_NOT\_ALLOWED)**

**AssertionError: 200 != 405**

**----------------------------------------------------------------------**

**Ran 29 tests in 19.719s**

**FAILED (failures=3, errors=2)**

**Destroying test database for alias 'default'...**