# **Project APIs for Rooms/Events**

# Andres Loor - August 2022

These APIs were created Python/Django considering Model View - Template (MVT) and the default Database was used for this Project (SQLite 3).

(MVT) and the default Database was used for this Project (SC
Database URL: <a href="http://127.0.0.1:8000/admin/">http://127.0.0.1:8000/admin/</a>
username: andresloor
password: 12345678
It was required to build 4 classes:
Class Room
ID
Name
Description
Capacity
Class Event
ID
Name
Description
Туре
Date
Room

**Available Places** 

# Class Customer ID Name

Description

## **Class Booking**

ID

Description

Customer

Event

**Status** 

### **CRUD Operations**

- GET ROOM LIST
  - o <a href="http://127.0.0.1:8000/rooms/">http://127.0.0.1:8000/rooms/</a>
- GET ROOM DETAIL
  - o <a href="http://127.0.0.1:8000/rooms/1">http://127.0.0.1:8000/rooms/1</a>
- POST NEW ROOM
  - o http://127.0.0.1:8000/rooms/
  - o Body(Name, Description, Capacity)
- PUT UPDATE ROOM
  - o http://127.0.0.1:8000/rooms/3
  - o Body(Name, Description, Capacity)

- DELETE ROOM
  - o <a href="http://127.0.0.1:8000/rooms/7">http://127.0.0.1:8000/rooms/7</a>
- GET EVENT LIST
  - o http://127.0.0.1:8000/events/
- GET EVENT DETAIL
  - o <a href="http://127.0.0.1:8000/events/1">http://127.0.0.1:8000/events/1</a>
- POST NEW EVENT
  - o http://127.0.0.1:8000/events/
  - Body(Name, Description, Type, Date, Room, Available Places)
- PUT UPDATE EVENT
  - o <a href="http://127.0.0.1:8000/events/1">http://127.0.0.1:8000/events/1</a>
  - o Body(Name, Description, Type, Date, Room, Available Places)

0

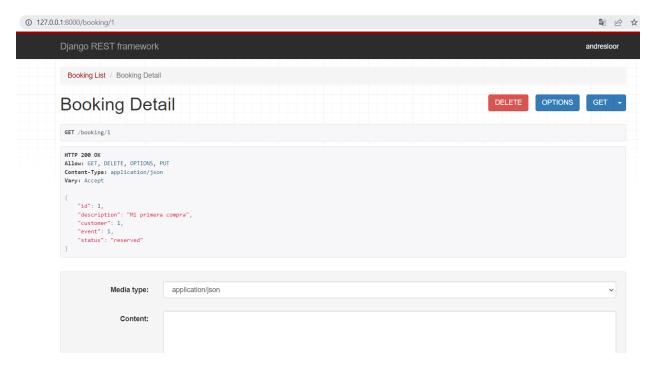
- DELETE EVENT
  - http://127.0.0.1:8000/events/2
- GET BOOKING LIST
  - o <a href="http://127.0.0.1:8000/booking/">http://127.0.0.1:8000/booking/</a>
- GET BOOKING DETAIL
  - o <a href="http://127.0.0.1:8000/booking/1">http://127.0.0.1:8000/booking/1</a>
- POST NEW BOOKING
  - o <a href="http://127.0.0.1:8000/booking/">http://127.0.0.1:8000/booking/</a>
  - Body(Description, Customer, Date, Event, Status)

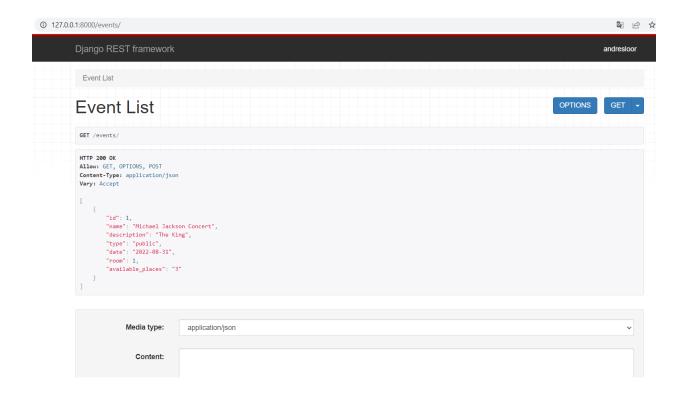
- PUT UPDATE BOOKING
  - o http://127.0.0.1:8000/booking/1
  - Body(Description, Customer, Date, Event, Status)

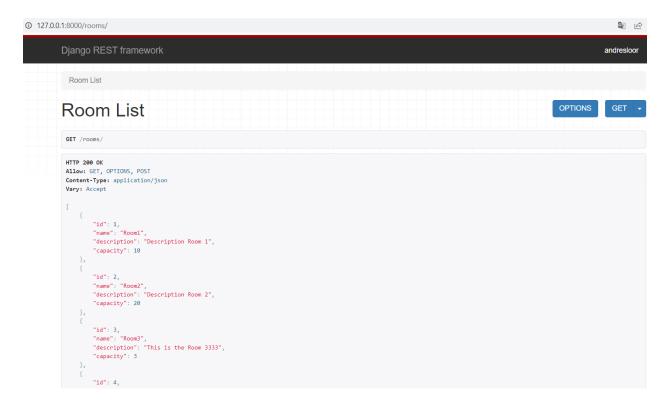
0

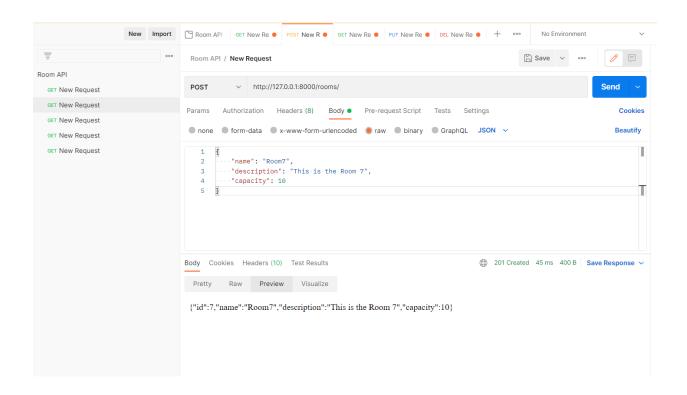
- DELETE BOOKING
  - o <a href="http://127.0.0.1:8000/booking/2">http://127.0.0.1:8000/booking/2</a>

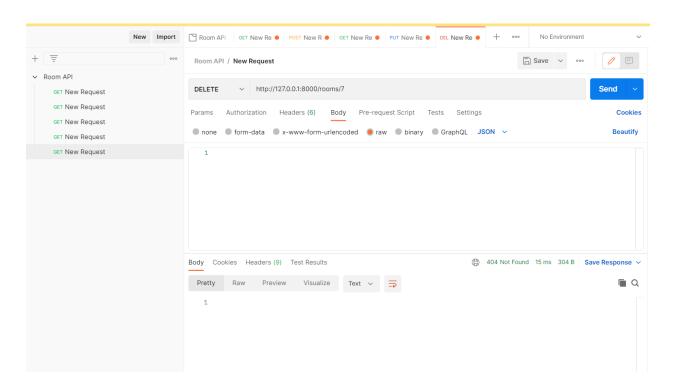
#### **EXAMPLES of how API works**





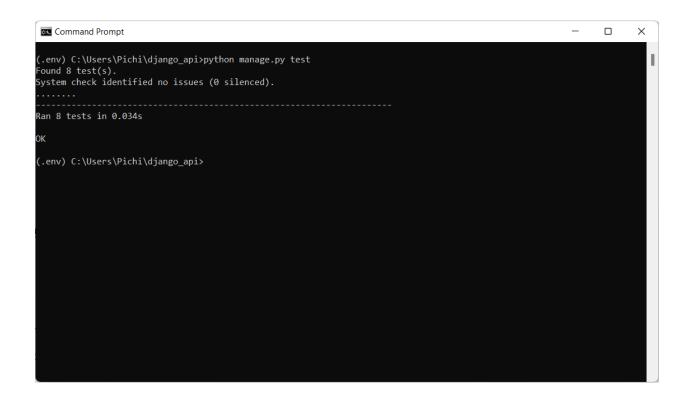






#### **TESTS**

The **test.pys** file runs 8 basic test from all the APIs.



The command is> python manage.py test

The result must be OK if anything changes.

If you need to try the **APIs**, can use this command line:

python consume.py

```
Command Prompt
                                                                                                                                                                                                                                                                         X
  Volume Serial Number is 5E32-C3A6
 Directory of C:\Users\Pichi\django_api
08/25/2022 04:30 AM
08/24/2022 01:41 AM
                                                        <DIR>
08/23/2022 10:52 PM
08/25/2022 04:30 AM
                                                        <DIR>
                                                                        176,128 db.sqlite3
08/25/2022 04:27 AM
                                                         <DIR>
                                                                                        django_api
08/23/2022 11:02 PM
                                                                                 688 manage.py
08/24/2022 06:25 AM
                                                                         392,654 README.docx
                                                                        426,101 README.pdf
995,571 bytes
08/24/2022 06:25 AM
                                   4 File(s)
                                   4 Dir(s) 2,413,907,968 bytes free
(.env) C:\Users\Pichi\django_api>cd django_api
(.env) C:\Users\Pichi\django_api\django_api>python consume.py
[{'id': 1, 'name': 'Room1', 'description': 'Room 1', 'capacity': 10}, {'id': 2, 'name': 'Room2', 'description': 'This is
the Room 2 Updated', 'capacity': 20}, {'id': 3, 'name': 'Room30', 'description': 'This is the New Room 30', 'capacity':
10), {'id': 4, 'name': 'Room30', 'description': 'This is the New Room 30', 'capacity': 10}, {'id': 5, 'name': 'Room30',
    'description': 'This is the New Room 30', 'capacity': 10}, {'id': 6, 'name': 'Room30', 'description': 'This is the New
Room 30', 'capacity': 10}, {'id': 7, 'name': 'Room30', 'description': 'This is the New Room 30', 'capacity': 10}, {'id':
8, 'name': 'Room30', 'description': 'This is the New Room 30', 'capacity': 10}, {'id': 9, 'name': 'Room30', 'description': 'This is the New Room 30', 'capacity': 10}]
[{'id': 3, 'name': 'Michael Jackson Concert', 'description': 'King', 'type': 'public', 'date': '2022-09-01', 'room': 1,
'available_places': 2}]
[{'id': 2, 'description': 'Mi primera compra', 'customer': 1, 'event': 3, 'status': 'reserved'}]
  [{'id': 2, 'description': 'Mi primera compra', 'customer': 1, 'event': 3, 'status': 'reserved'}]
  (.env) C:\Users\Pichi\django_api\django_api>_
```