

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).

Database URL: <http://127.0.0.1:8000/admin/>

username: andresloor

password: 12345678

It was required to build 4 classes:

Class Room

ID

Name

Description

Capacity

Class Event

ID

Name

Description

Type

Date

Room

Available Places

Class Customer

ID

Name

Description

Class Booking

ID

Description

Customer

Event

Status

CRUD Operations

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

- DELETE ROOM
 - <http://127.0.0.1:8000/rooms/7>
- GET EVENT LIST
 - <http://127.0.0.1:8000/events/>
- GET EVENT DETAIL
 - <http://127.0.0.1:8000/events/1>
- POST NEW EVENT
 - <http://127.0.0.1:8000/events/>
 - Body(Name, Description, Type, Date, Room, Available Places)
- PUT UPDATE EVENT
 - <http://127.0.0.1:8000/events/1>
 - Body(Name, Description, Type, Date, Room, Available Places)
 -
- DELETE EVENT
 - <http://127.0.0.1:8000/events/2>
- GET BOOKING LIST
 - <http://127.0.0.1:8000/booking/>
- GET BOOKING DETAIL
 - <http://127.0.0.1:8000/booking/1>
- POST NEW BOOKING
 - <http://127.0.0.1:8000/booking/>
 - Body(Description, Customer, Date, Event, Status)

- PUT UPDATE BOOKING
 - <http://127.0.0.1:8000/booking/1>
 - Body(Description, Customer, Date, Event, Status)
 -
- DELETE BOOKING
 - <http://127.0.0.1:8000/booking/2>

EXAMPLES of how API works

The screenshot shows a web browser window with the address bar displaying `127.0.0.1:8000/booking/1`. The page header indicates it's the Django REST framework, with the username `andresloor` in the top right. The main content area is titled "Booking Detail" and includes a breadcrumb "Booking List / Booking Detail". To the right of the title are three buttons: "DELETE" (red), "OPTIONS" (blue), and "GET" (blue with a dropdown arrow). Below the title, a box shows the HTTP response for the `GET /booking/1` request:

```
HTTP 200 OK
Allow: GET, DELETE, OPTIONS, PUT
Content-Type: application/json
Vary: Accept

{
  "id": 1,
  "description": "Mi primera compra",
  "customer": 1,
  "event": 1,
  "status": "reserved"
}
```

At the bottom, there is a "Media type" dropdown menu set to `application/json` and a "Content:" input field.

127.0.0.1:8000/events/

Django REST framework

andresloor

Event List

Event List

OPTIONSGET

GET /events/

HTTP 200 OK

Allow: GET, OPTIONS, POST

Content-Type: application/json

Vary: Accept

[
 {
 "id": 1,
 "name": "Michael Jackson Concert",
 "description": "The King",
 "type": "public",
 "date": "2022-08-31",
 "room": 1,
 "available_places": "3"
 }
]

Media type:

application/json

Content:

127.0.0.1:8000/rooms/

Django REST framework

andresloor

Room List

Room List

OPTIONSGET

GET /rooms/

HTTP 200 OK

Allow: GET, OPTIONS, POST

Content-Type: application/json

Vary: Accept

[
 {
 "id": 1,
 "name": "Room1",
 "description": "Description Room 1",
 "capacity": 10
 },
 {
 "id": 2,
 "name": "Room2",
 "description": "Description Room 2",
 "capacity": 20
 },
 {
 "id": 3,
 "name": "Room3",
 "description": "This is the Room 3333",
 "capacity": 3
 },
 {
 "id": 4,
 "name": "Room4",
 "description": "Description Room 4",
 "capacity": 5
 }
]

NewImport

Room APIGET New RePOST New RGET New RePUT New ReDEL New Re+...No Environment

Room API / New Request

Save

Send

POST

http://127.0.0.1:8000/rooms/

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

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996

997

998

999

1000

Body

Cookies

Headers (10)

Test Results

201 Created

45 ms

400 B

Save Response

Pretty

Raw

Preview

Visualize

{

"id":7,

"name":"Room7",

"description":"This is the Room 7",

"capacity":10

}

NewImport

Room APIGET New RePOST New RGET New RePUT New ReDEL New Re+...No Environment

Room API / New Request

Save

Send

DELETE

http://127.0.0.1:8000/rooms/7

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

Body

Cookies

Headers (9)

Test Results

404 Not Found

15 ms

304 B

Save Response

Pretty

Raw

Preview

Visualize

Text

1

TESTS

The **consume.py** file runs test from the GET LIST classes.

```
(.env) C:\Users\Pichi\django_api\django_api>python consume.py
[{'id': 1, 'name': 'Room1', 'description': 'Description Room 1', 'capacity': 10}, {'id': 2, 'name': 'Room2', 'description': 'Description Room 2', 'capacity': 20}, {'id': 3, 'name': 'Room3', 'description': 'This is the Room 3333', 'capacity': 3}, {'id': 4, 'name': 'Room4', 'description': 'Description Room 4', 'capacity': 4}, {'id': 5, 'name': 'Room5', 'description': 'Description Room 5', 'capacity': 5}, {'id': 6, 'name': 'Room6', 'description': 'This is the Room 6', 'capacity': 6}, {'id': 7, 'name': 'Room7', 'description': 'This is the Room 7', 'capacity': 10}]
[{'id': 1, 'name': 'Michael Jackson Concert', 'description': 'The King', 'type': 'public', 'date': '2022-08-31', 'room': 1, 'available_places': '3'}]
[{'id': 1, 'description': 'Mi primera compra', 'customer': 1, 'event': 1, 'status': 'reserved'}]
```

The command is `python consume.py`