**Rooms booking system API server developer Guide**

This is a Rest API service for a rooms booking system backend server developed by Django. For development purpose the endpoint and its usage described below:

1, **Adding rooms**:

**Url**: <http://localhost:8001/admin/app_restapi/>

**Authentication**: Required

**Method**: POST

**Parameters**:

Name (str) – compulsory

Description (str) - optional

Created\_by (User id) – compulsory

Is delete (bool) – optional

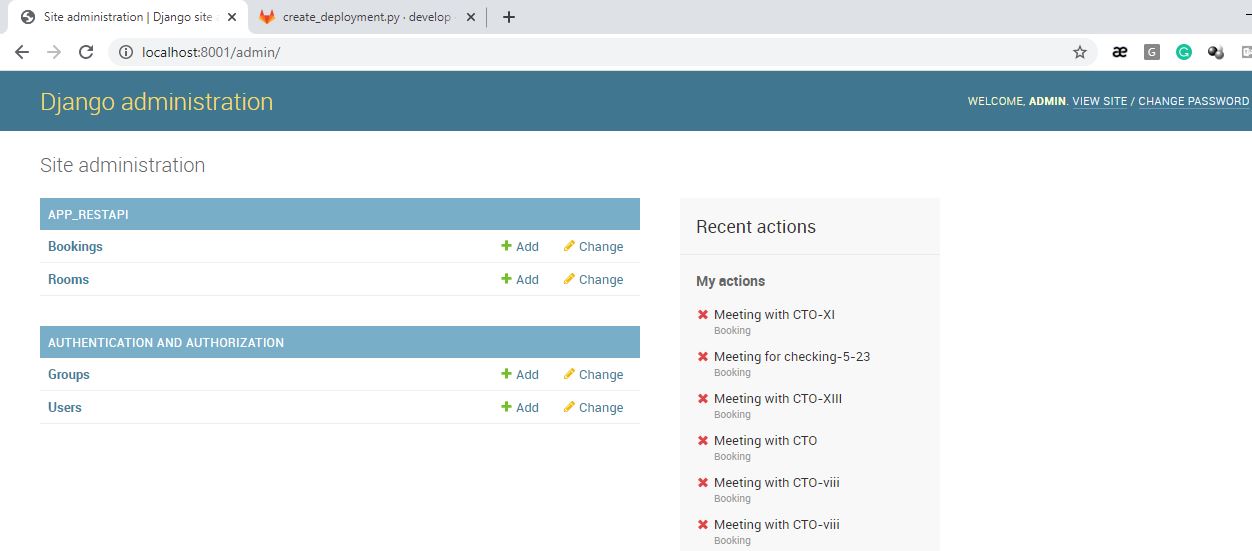


Fig01: Rooms adding

**Note**: This operation done by admin login, (admin username, password is required)

2, **Listing rooms**:

**Url**: <http://localhost:8001/api/rooms/>

**Authentication**: Optional (depends on config\_util flag)

**Method**: GET

**Parameters**: None

**Return** (Ex):

[

    {

        "id": 1,

        "name": "Mercury",

        "description": "The small…"

    },

    {

        "id": 2,

        "name": "Venus",

        "description": "Mid-size room…"

    },

   {

        "id": 3,

        "name": "Mars",

        "description": "Mid-size room, … "

    }

]

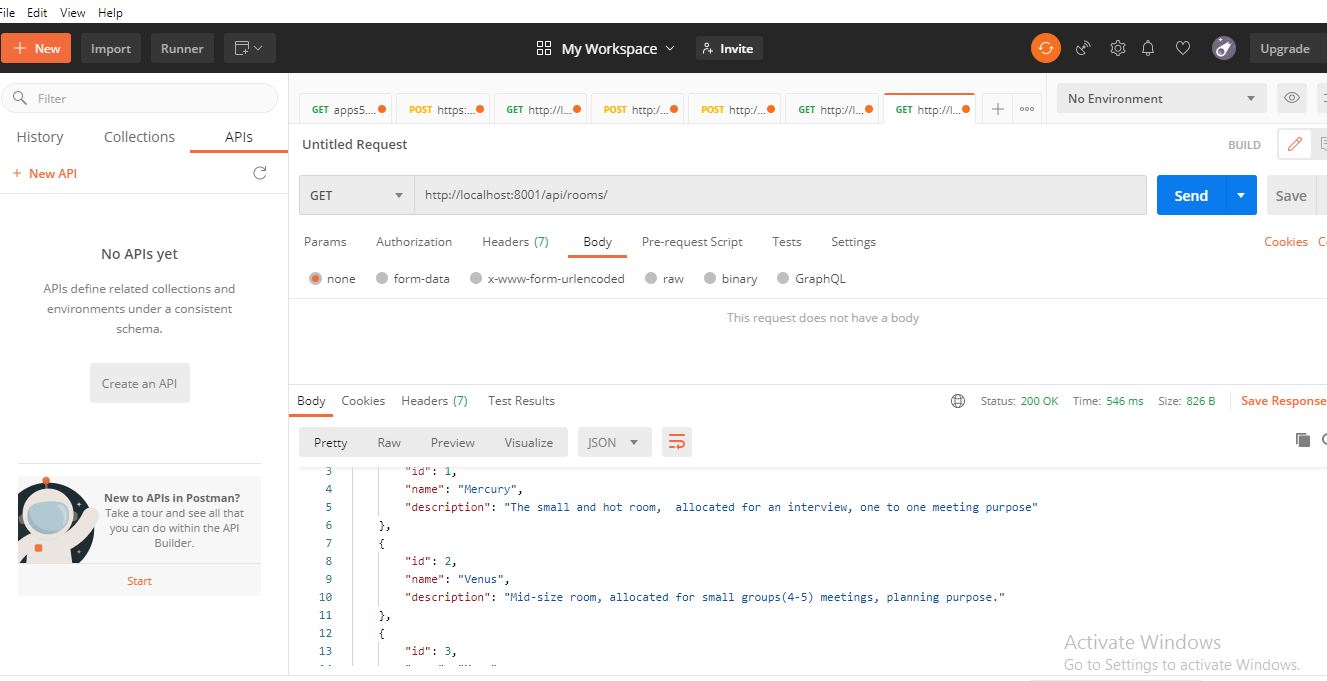


Fig02: Listing all rooms endpoint

3, **Home Url:**

**Url**: <http://localhost:8001/api/home/>

**Authentication**: Optional (depends on config\_util flag)

**Method**: GET

**Parameters**: None

**Return** (Ex):

{

    "success": **true**,

    "Message": "Welcome to the Room Booking App!.."

}

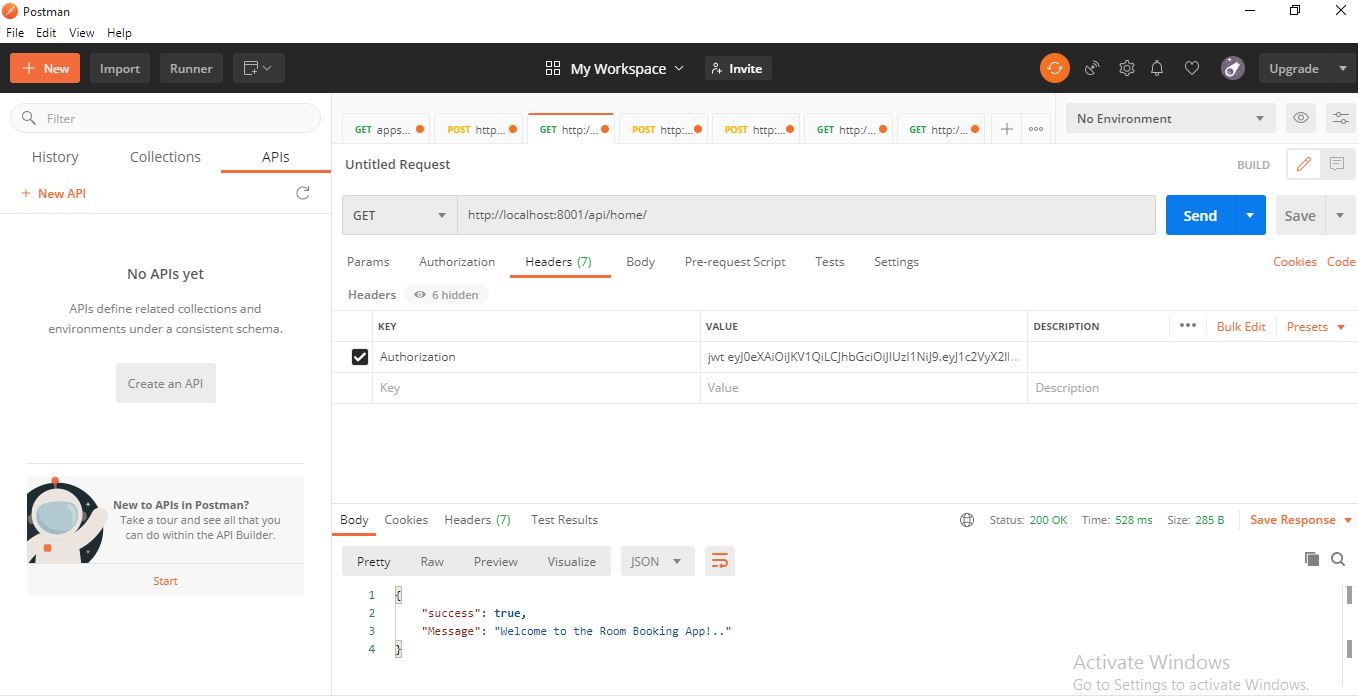


Fig03: Home endpoint

4, **Get Authentication Token**:

**Url**: <http://localhost:8001/api/api-token-auth/>

**Authentication**: None

**Method**: POST

**Parameters**:

username (str) – ex. “devuser”

password (str) – ex. “Welcome@12345”

**Return** (Ex):

{

    "token": "eyJ0eXA… ",

    "user": {…},

    "user\_group": [],

    "login\_count": 6

}

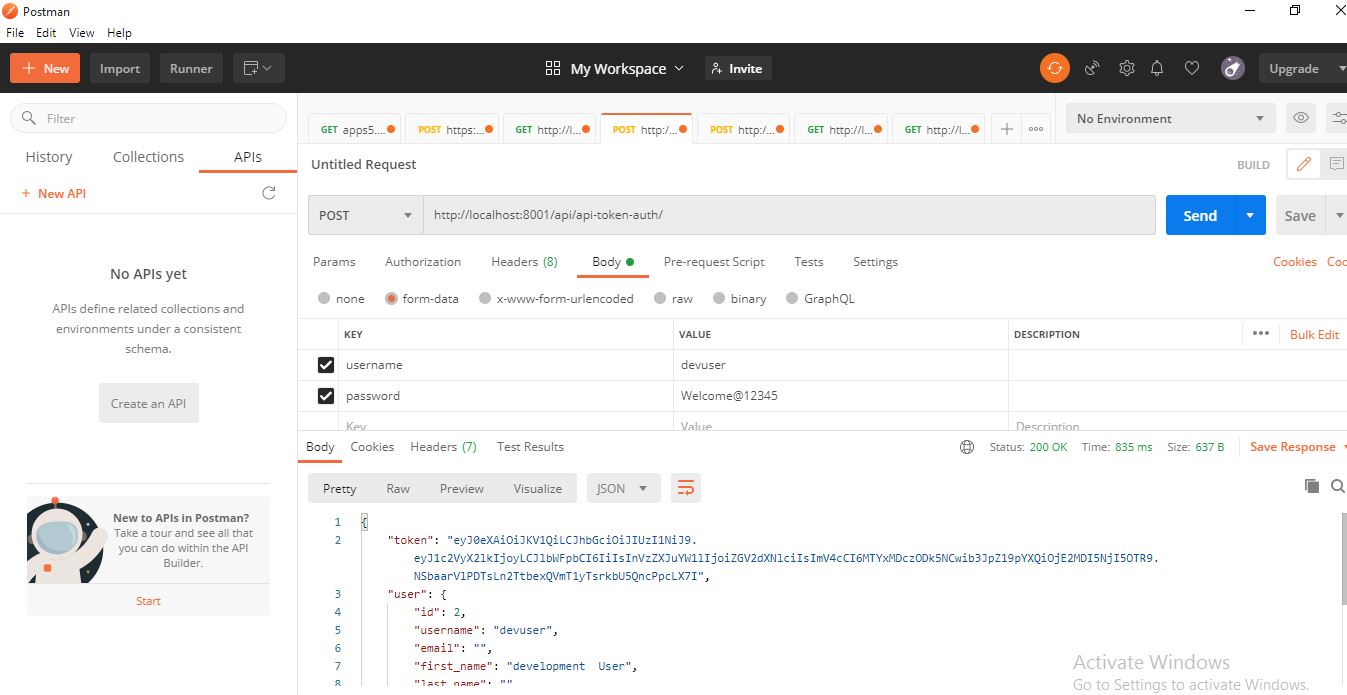
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Fig04: Get jwt auth-token

**5, Book the room:**

**Url**: <http://localhost:8001/api/booking/>

**Authentication**: Required

**Method**: POST

**Parameters**:

title (str) – ex. “Internal teams meeting “

room (str) – ex. “5”

date (str) – ex. “22-10-2020”

start (str) – ex. “11:00“

end (str) – ex. “11:30”

description (str) – ex. “regular catchup meeting”

members (str) – ex. “[2,4,5]”

**Return (Ex.):**

{

    "success": **true**,

    "Message": "Room No. 5 is booked."

}

**Note**: room, members are ID (primary key of other table records)

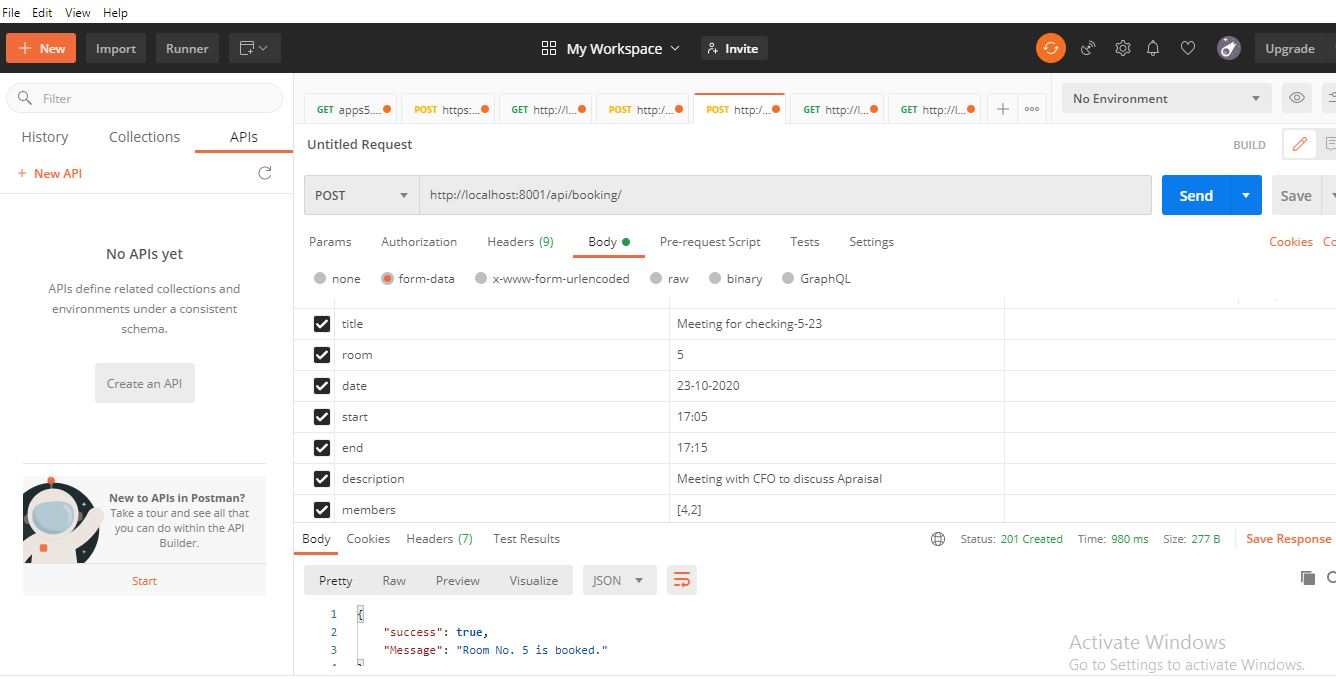


Fig05: Room booking endpoint

**6, Check free rooms:**

**Url**: <http://localhost:8001/api/free-rooms/?date=23-10-2020&start=10:00&end=12:30>

**Authentication**: Required

**Method**: GET

**Parameters**: None

**Return** (Ex):

{

    "success": **true**,

    "Message": "Rooms are available",

    "data": [

        {

            "id": 1,

            "name": "Mercury",

            "description": "The small and …"

        },

        {

            "id": 4,

            "name": "Jupyter",

            "description": "Very Large …"

        }

    ]

}

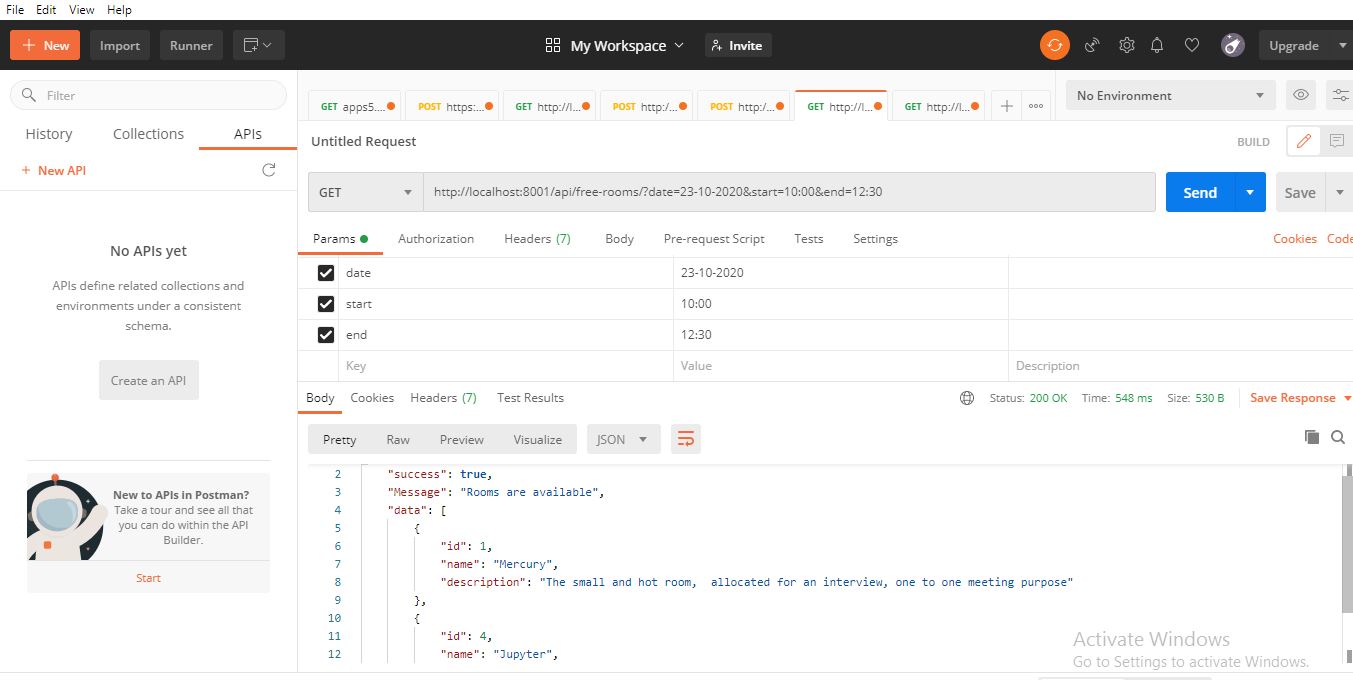


Fig06: Check the free rooms endpoint

**Set JWT token in headers**:

If you used postman, add Authorization in Headers with respect generated token in every authentication required API call

Like:

Authorization : jwt eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoyLCJlbWFpbCI6IiIsInVzZXJuYW1lIjoiZGV2dXNlciIsImV4cCI6MTYxMDY0ODU3Miwib3JpZ19pYXQiOjE2MDI4NzI1NzJ9.S\_48NIgSiKWe-y8XswGtKHb1IWhfBLj5Vu2GzXT0tmg

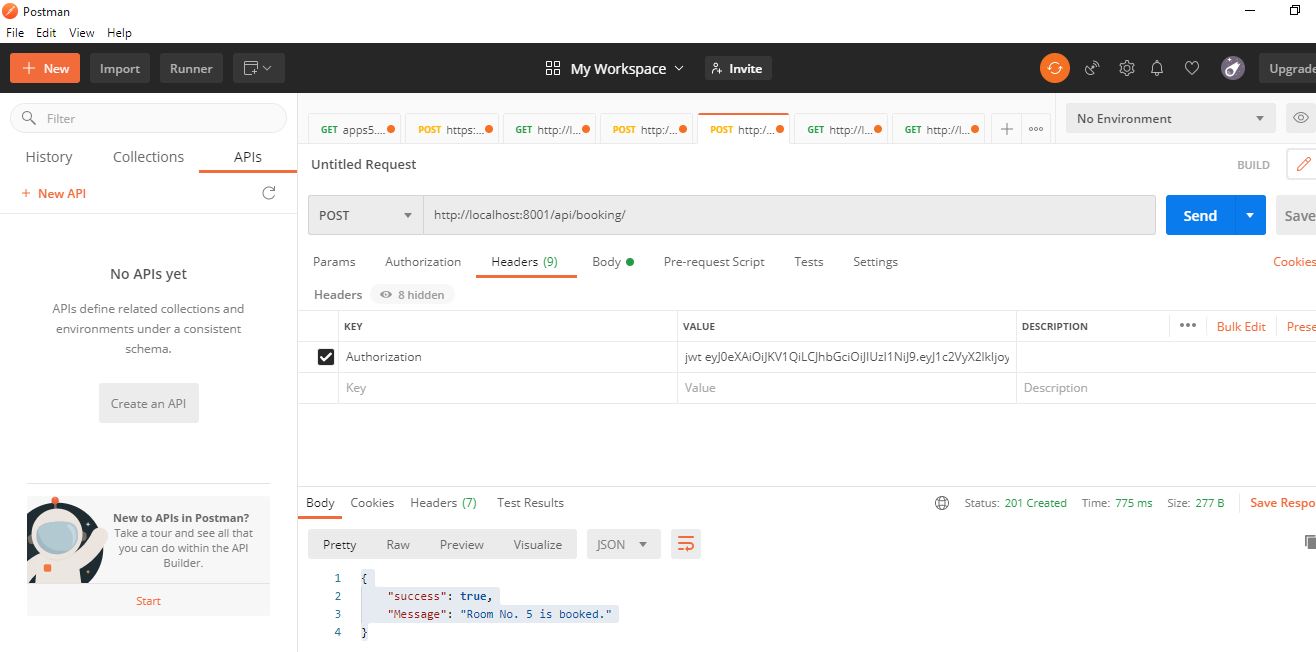


Fig07: Set JWT token in headers