**README**

**API Endpoints**

1. **/auth/login/ :** This endpoint allows only POST requests. This endpoint is used to get the token required to send all other http requests. The format for sending the POST request is available under auth.json. i.e.,

**{**

**"username": "admin",**

**"password": "admin"**

**}**

Here the username and password is the one used to create a super user or any other users.

1. **/api/vendors/** : This endpoint allows GET and POST requests only. This endpoint is used to view all vendors with a GET request and add a new vendor with a POST request. The format for sending the POST request is available under vendor.json. i.e.,

**{**

**"name": "New Vendors",**

**"contact\_details": "9999999999",**

**"address": "123 New Jersey, 21654",**

**"vendor\_code": "1"**

**}**

Here the vendor\_code should be unique for all vendors

1. **/api/vendors/{vendor\_id}/ :** This endpoint allows GET, PUT and DELETE requests only. This endpoint is used to view and modify the details of a specific vendor or even delete it.
2. **/api/purchase\_orders/ :** This endpoint allows GET and POST requests only. This endpoint is used to view all purchase orders and create new purchase order. The format for sending the POST request is available under purchase\_orders.json. i.e.,

**{**

**"po\_number": "PO2",**

**"order\_date": "2023-12-01T22:00:00Z",**

**"delivery\_date": "2023-12-15T12:00:00Z",**

**"items": {**

**"bat": 3,**

**"pads": 8**

**},**

**"quantity": 11,**

**"status": "pending",**

**"issue\_date": "2023-12-01T22:01:00Z",**

**"vendor": 4**

**}**

Here the po\_number must be unique.

1. **/api/purchase\_orders/{po\_id}/ :** This endpoint allows GET, PUT and DELETE requests only. This endpoint is used to view and modify the details of a specific purchase order or even delete it. Use this endpoint to change the status to completed or cancelled.
2. **/api/vendors/{vendor\_id}/performance :** This endpoint allows GET requests only. This endpoint is used to view the performance of each vendor individually.
3. **/api/purchase\_orders/{po\_id}/acknowledge :** This endpoint allows POST requests only. This endpoint is used to acknowledge a purchase order by the vendor. No data needs to be passed while sending the POST request.

**Test Instructions**

1. **Installations**
2. To install django,

**pip install django**

1. To install django rest framework,

**pip install djangorestframework**

**2. Running the Server:**

1. To run the server, first move to the VendorManagementSystem directory, and then run,

**python manage.py runserver**

1. To create the initial database structure run,

**python manage.py makemigrations**

**python manage.py migrate**

1. To create a superuser, run,

**python manage.py createsuperuser**

**Note :** The credentials are used to generate the token for sending the Http request.

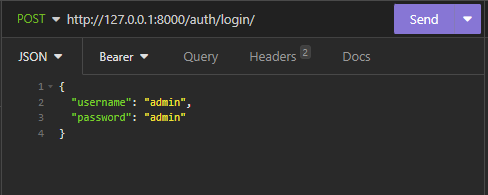
**3. Creating Bearer Token for Authentication**

**Note**:

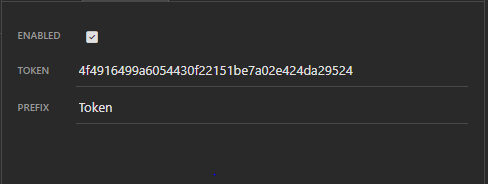
Make sure to run the server before starting to send http requests. Make use of a software like Postman or Insomnia to send the http requests.

For sending http requests I have used Insomnia.

1. Send a **POST** request to **http://127.0.0.1:8000/auth/login**. The data of the POST request must be **JSON** and must have username and password as keys.



1. Now apply the token received under bearer token with the prefix as Token.



**4. Sending Http requests:**

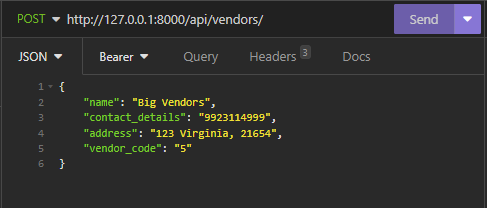
**Note**:

Make sure to run the server before starting to send http requests. Make use of a software like Postman or Insomnia to send the http requests.

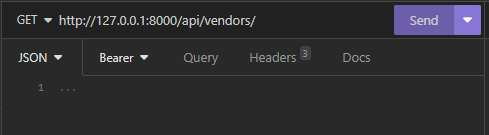
For sending http requests I have used Insomnia.

Make sure to follow the steps in Section 2 and 3 before moving forward

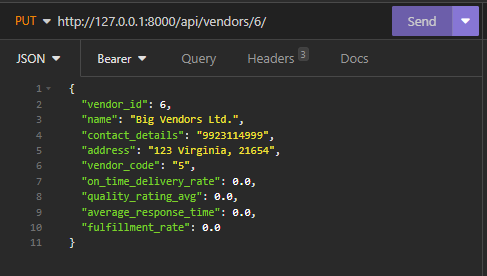
1. Sending POST request, enter the correct uri and provide the correct information and then click on Send.



1. Sending GET request, enter the correct uri and then click on Send.



1. Sending PUT request, enter the correct uri and provide the correct information and then click on Send. To get the details of the vendor or purchase order that needs to be updated, first do a GET request for the specific vendor id or purchase order id. Then copy the JSON data and modify it.



1. Sending DELETE request, enter the correct uri and then click on Send.

