

API Documentation

Introduction

This document provides detailed information about the endpoints and functionalities of the API.

Base URL

- <http://127.0.0.1:8000/api/>

Authentication

The API uses token-based authentication. You need to include the token in the request headers as follows:

Authorization: Token YOUR_API_TOKEN

Endpoints:

Get_token

- Obtain token from the user using api endpoint:

<http://127.0.0.1:8000/authenticate/>

- **Username** and **password** should be provided
- Method: POST

Description: Get Auth Token.

Payload: {

 "username": "RamyaKharvi",

 "password": "ramya123"

}

Response:

Status: 200 OK

Body: {

 "token": "1b22a445a0a3a88d3a4f3c852b1101c75040ca42"

}

Vendor Profile Management

1. Endpoint 1

URL: <http://127.0.0.1:8000/api/vendors/>

Method: **POST**

Description: Creates a new vendor data.

Payload:

{

```
"name": "Ramya",  
"contact_details": 9876567890,  
"address": "123 ABCD Bangalore-590213"  
}
```

Response:

Status: 201 Created

Body: {

```
"id": 8,  
"name": "Ramya",  
"contact_details": "9876567890",  
"address": "123 ABCD Bangalore-590213",  
"vendor_code": "VN-6798821",  
"on_time_delivery_rate": 0.0,  
"quality_rating_avg": 0.0,  
"average_response_time": 0.0,  
"fulfillment_rate": 0.0  
}
```

2. Endpoint 2

URL: http://127.0.0.1:8000/api/vendors/{vendor_id}/

Method: GET

Description: Retrieve specific vendor details.

Response:

Status: 200 OK

Body: {

```
"id": 5,  
"name": "Ramya",  
"contact_details": "9876567890",  
"address": "123 ABCD Bangalore-590213",  
"vendor_code": "VN-3455692",  
"on_time_delivery_rate": 100.0,  
"quality_rating_avg": 3.17,  
"average_response_time": 260820.0,  
"fulfillment_rate": 25.0  
}
```

3. Endpoint 3

URL: <http://127.0.0.1:8000/api/vendors/>

Method: GET

Description: Get list of all vendors.

Response:

Status: 200 OK

Body: [

```
{
  "id": 5,
  "name": "Ramya",
  "contact_details": "9876567890",
  "address": "123 ABCD Bangalore-590213",
  "vendor_code": "VN-3455692",
  "on_time_delivery_rate": 100.0,
  "quality_rating_avg": 3.17,
  "average_response_time": 260820.0,
  "fulfillment_rate": 25.0
}
```

]

4. Endpoint 4

URL: http://127.0.0.1:8000/api/vendors/{vendor_id}/

Method: PUT

Description: Update a vendor's details.

Payload:

```
{
  "name": "Ramya Kharvi",
  "contact_details": 9876567890,
  "address": "123 ABCD Bangalore-576102"
}
```

Response:

Status: 200 OK

Body: {

```
  "id": 8,
  "name": "Ramya Kharvi",
  "contact_details": "9876567890",
  "address": "123 ABCD Bangalore-576102",
  "vendor_code": "VN-6798821",
  "on_time_delivery_rate": 0.0,
  "quality_rating_avg": 0.0,
  "average_response_time": 0.0,
  "fulfillment_rate": 0.0
}
```

5. Endpoint 5

URL: http://127.0.0.1:8000/api/vendors/{vendor_id}/

Method: DELETE

Description: Delete a specific vendor data.

Response:

Status: 204 No Content

6. Endpoint 6

URL: http://127.0.0.1:8000/api/vendors/{vendor_id}/performance/

Method: GET

Description: Retrieve a vendor's performance metrics.

Response:

Status: 200 OK

Body: {
 "id": 5,
 "name": "Ramya",
 "vendor_code": "VN-3455692",
 "on_time_delivery_rate": 100.0,
 "quality_rating_avg": 3.17,
 "average_response_time": 260820.0,
 "fulfillment_rate": 25.0
}

Vendor Purchase Order

1. Endpoint 1

URL: http://127.0.0.1:8000/api/purchase_orders/

Method: **POST**

Description: Creates a new purchase order data.

Payload:

```
{  
  "vendor": 5,  
  "order_date": "2024-05-01T11:41:00Z",  
  "delivery_date": "2024-05-10T11:41:00Z",  
  "items": {  
    "Dress": "T-Shirt",  
    "Color": "Black",  
    "Size": "Medium"  
  },  
  "quantity": 3,  
}
```

```
"status": "PENDING",
"quality_rating": 3.0,
"issue_date": "2024-05-06T11:41:00Z",
}
```

Response:

Status: 201 Created

```
Body: {
  "id": 13,
  "po_number": "('PO-9689-7296-1429',)",
  "vendor": 5,
  "order_date": "2024-05-01T11:41:00Z",
  "delivery_date": "2024-05-10T11:41:00Z",
  "items": {
    "Dress": "T-Shirt",
    "Color": "Black",
    "Size": "Medium"
  },
  "quantity": 3,
  "status": "PENDING",
  "quality_rating": 3.0,
  "issue_date": "2024-05-06T11:41:00Z",
  "acknowledgment_date": "null"
}
```

2. Endpoint 2

URL: http://127.0.0.1:8000/api/purchase_orders/{po_id}/

Method: GET

Description: Retrieve details of specific purchase order.

Response:

Status: 200 OK

```
Body: {
  "id": 13,
  "po_number": "('PO-9689-7296-1429',)",
  "vendor": 5,
  "order_date": "2024-05-01T11:41:00Z",
  "delivery_date": "2024-05-10T11:41:00Z",
  "items": {
    "Dress": "T-Shirt",
    "Color": "Black",
    "Size": "Medium"
  },
}
```

```
    "quantity": 3,  
    "status": "COMPLETED",  
    "quality_rating": 3.0,  
    "issue_date": "2024-05-06T11:41:00Z",  
    "Acknowledgment_date": "2024-05-09T12:08:00Z"  
  }  
}
```

3. Endpoint 3

URL: http://127.0.0.1:8000/api/purchase_orders/

Method: GET

Description: Get List of all purchase orders.

Response:

Status: 200 OK

Body: [

```
{  
  "id": 13,  
  "po_number": "('PO-9689-7296-1429',)",  
  "vendor": 5,  
  "order_date": "2024-05-01T11:41:00Z",  
  "delivery_date": "2024-05-10T11:41:00Z",  
  "items": {  
    "Dress": "T-Shirt",  
    "Color": "Black",  
    "Size": "Medium"  
  },  
  "quantity": 3,  
  "status": "COMPLETED",  
  "quality_rating": 3.0,  
  "issue_date": "2024-05-06T11:41:00Z",  
  "acknowledgment_date": "2024-05-09T12:08:00Z"  
}  
]
```

4. Endpoint 4

URL: http://127.0.0.1:8000/api/purchase_orders/?vendor_id=<vendor_id>

Method: GET

Description: Get List of purchase orders with a specified vendor.

Parameter:

vendor_id = <vendor_id> (optional)

Response:

Status: 200 OK

Body: [

```

{
  "id": 8,
  "po_number": "('PO-9090-7605-7337',)",
  "vendor": 6,
  "order_date": "2024-05-03T11:45:00Z",
  "delivery_date": "2024-05-10T11:45:00Z",
  "items": {
    "type": "dress"
  },
  "quantity": 2,
  "status": "COMPLETED",
  "quality_rating": 4.5,
  "issue_date": "2024-05-04T11:46:00Z",
  "acknowledgment_date": "2024-05-10T08:09:29.114433Z"
},
{
  "id": 9,
  "po_number": "('PO-4912-236-5481',)",
  "vendor": 6,
  "order_date": "2024-05-06T11:46:00Z",
  "delivery_date": "2024-05-10T11:46:00Z",
  "items": {
    "ww": 12
  },
  "quantity": 2,
  "status": "PENDING",
  "quality_rating": 3.4,
  "issue_date": "2024-05-08T11:47:00Z",
  "acknowledgment_date": null
}
]

```

5. Endpoint 5

URL: http://127.0.0.1:8000/api/purchase_orders/{po_id}/

Method: PUT

Description: Update a specific purchase order.

Payload: {

```

  "vendor": 5,
  "order_date": "2024-05-01T11:41:00Z",
  "delivery_date": "2024-05-10T11:41:00Z",
  "items": {

```

```
        "Dress": "T-Shirt",
        "Color": "Black",
        "Size": "Medium"
    },
    "quantity": 3,
    "status": "COMPLETED",
    "quality_rating": 3.0,
    "issue_date": "2024-05-06T11:41:00Z",
    "acknowledgment_date": "2024-05-09T12:08:00Z"
}
```

Response:

Status: 200 OK

Body: {

```
    "vendor": 5,
    "order_date": "2024-05-01T11:41:00Z",
    "delivery_date": "2024-05-10T11:41:00Z",
    "items": {
        "Dress": "T-Shirt",
        "Color": "Black",
        "Size": "Medium"
    },
    "quantity": 3,
    "status": "COMPLETED",
    "quality_rating": 3.0,
    "issue_date": "2024-05-06T11:41:00Z",
    "acknowledgment_date": "2024-05-09T12:08:00Z"
}
```

6. Endpoint 6

URL: http://127.0.0.1:8000/api/purchase_orders/{po_id}/

Method: DELETE

Description: Delete a purchase order.

Response:

Status: 204 No Content

7. Endpoint 7

URL: http://127.0.0.1:8000/api/purchase_orders/{po_id}/acknowledge/

Method: POST

Description: Acknowledge a purchase order.

Response:

Status: 200 OK

Body: {
 "success": "Purchase order acknowledged"
}

Error Responses

- **400 Bad Request:** Invalid request parameters or missing required fields.
- **401 Unauthorized:** Authentication credentials are missing or invalid.
- **404 Not Found:** Resource not found.
- **500 Internal Server Error:** Unexpected server error.