Testing

Different API endpoints:

- **"GET", "POST" all vendors:**
  Go to http://127.0.0.1:8000/api/vendors

- **"GET", "PUT", "DELETE" a specific vendor based on vendor_id:**
  Go to http://127.0.0.1:8000/api/vendors/<vendor_id>

- **"GET", performance of a vendor:**
  Go to http://127.0.0.1:8000/api/vendors/<vendor_id>/performance

- **"GET", "POST" View all purchase orders:**
  Go to http://127.0.0.1:8000/api/purchase_orders

- **"GET", "PUT", "DELETE" View a specific purchase order based on purchase_id:**
  Go to http://127.0.0.1:8000/api/purchase_orders/<purchase_id>

- **"POST" Acknowledge api:**
  Go to http://127.0.0.1:8000/api/purchase_orders/<purchase_id>/acknowledge

Note: The vendor_id and purchase_id are the default primary keys assigned by Django. They are always integers.

Filling the database:

You can fill the database from the admin page. Go to http://127.0.0.1:8000/admin and login with an admin/superuser account.

Test for Token-based-authentication:

- Going to the API endpoints directly will give you error since token-based-authentication is on
- To test this authentication, do the following steps:
  - Go to http://127.0.0.1:8000/admin
  - Go to "Tokens"
  - Click on add tokens
  - Select admin (or any other superuser name)
  - Open a terminal in the project directory and type the following command:

    ```
    curl -X GET http://127.0.0.1:8000/api/vendors -H 'Authorization: Token [your token]'
    ```

    Note: insert your token in [your token] part of the command
  - JSON of the existing vendors should be displayed on the terminal

Running the tests for API:

- You must disable the token-authentication to run the following tests.
  - Go to *mysite/api/views.py* and comment out all the lines containing:

```
@authentication_classes([TokenAuthentication])
@permission_classes([IsAuthenticated])
```

- **For vendors:**
  - Go to the respective end points and use the get, post, put and delete methods as you please.
  - For post and put methods you must give input as a JSON.
  - Some examples of JSON:

```
{
    "name": "Vendor One",
    "contact_details": "2341563748",
    "address": "123 Test Street",
    "vendor_code": "vendor123"
 },

{
    "name": "Vendor Three",
    "contact_details": "2647893674",
    "address": "789 Elm Street",
    "vendor_code": "vendor456"
 }
```

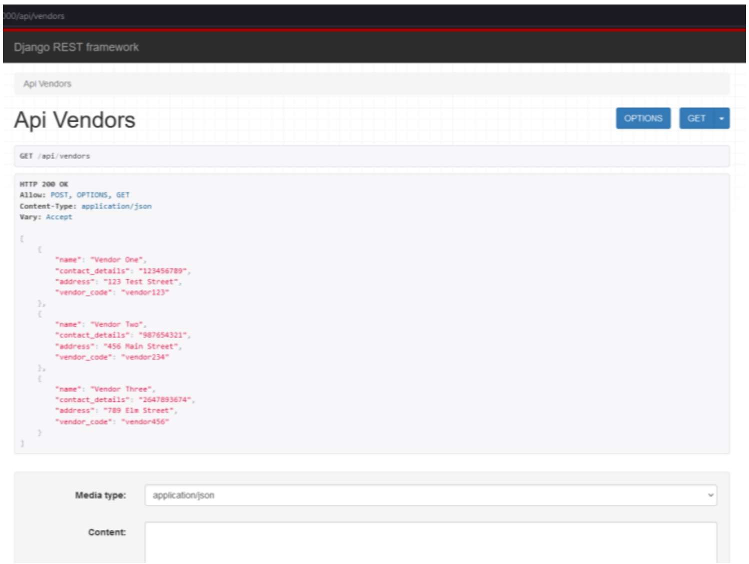
  - The vendor_id is derived from "id" column. This column is automatic incrementing integer column. Therefore, any new POST you make will be assigned a number starting from 1.
  - If a vendor is deleted, the vendor_id which is not empty will not be used by some other vendor
- **For Orders:**
  - Go to the respective end points and use the get, post, put and delete methods as you please.
  - For post and put methods you must give input as a JSON.
  - Some examples:

```
  {
    "po_number": "abc3",
    "vendor": 5,
    "order_date": "2024-05-01T03:24:52Z",
    "expected_delivery_date": "2024-05-03T12:00:00Z",
    "actual_delivery_date": "2024-05-03T12:00:00Z",
    "items": "{\"item1\": \"desc1\"}",
    "quantity": 5,
    "status": "pending",
    "quality_rating": null,
    "issue_date": "2024-05-01T03:30:52Z",
    "acknowledgment_date": "2024-05-01T03:46:46.551265Z"
  }
```

  - The purchaseorder_id is derived from “id” column. This column is automatic incrementing integer column. Therefore, any new POST you make will be assigned a number starting from 1.
  - If an order is deleted, the purchaseorder_id which is not empty will not be used by some other order
  - **Note:** for updating the metrics the status should be “completed.” Use PUT to update the status and update the metrics
- **For acknowledgement Api:**
  - Go to the api end point and click on POST with no input.
  - The performance metrics are updated automatically

Demonstration:

- **GET vendors:**



```
GET /api/vendors
```

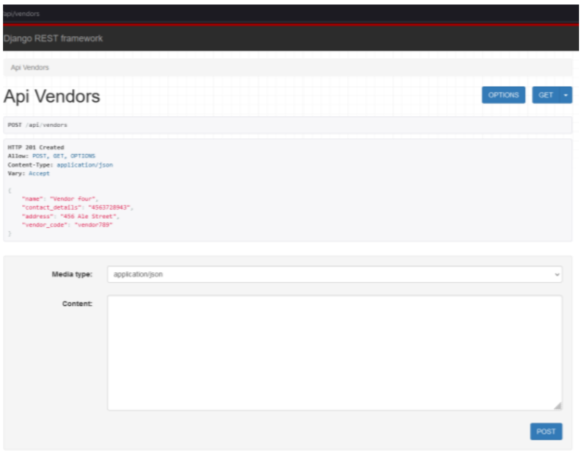
```
HTTP 200 OK
Allow: POST, OPTIONS, GET
Content-Type: application/json
Vary: Accept

[
    {
        "name": "Vendor One",
        "contact_details": "123456789",
        "address": "123 Test Street",
        "vendor_code": "vendor123"
    },
    {
        "name": "Vendor Two",
        "contact_details": "987654321",
        "address": "456 Main Street",
        "vendor_code": "vendor234"
    },
    {
        "name": "Vendor Three",
        "contact_details": "2647893674",
        "address": "789 Elm Street",
        "vendor_code": "vendor456"
    }
]
```

Media type: application/json

Content:

- **POST new vendor:**



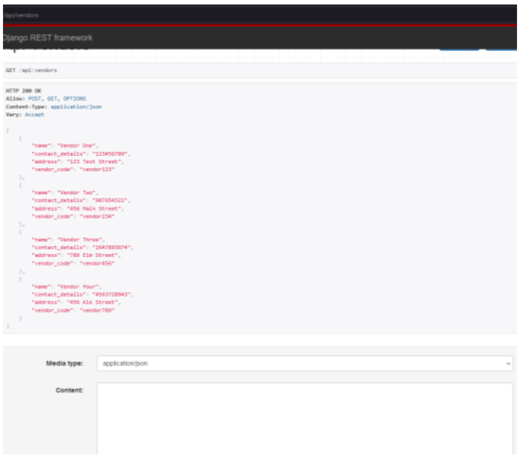
```
POST /api/vendors
```

```
HTTP 201 Created
Allow: POST, GET, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "name": "Vendor four",
    "contact_details": "4563728943",
    "address": "456 Ale Street",
    "vendor_code": "vendor789"
}
```

Media type: application/json

Content:



```
GET /api/vendors
```

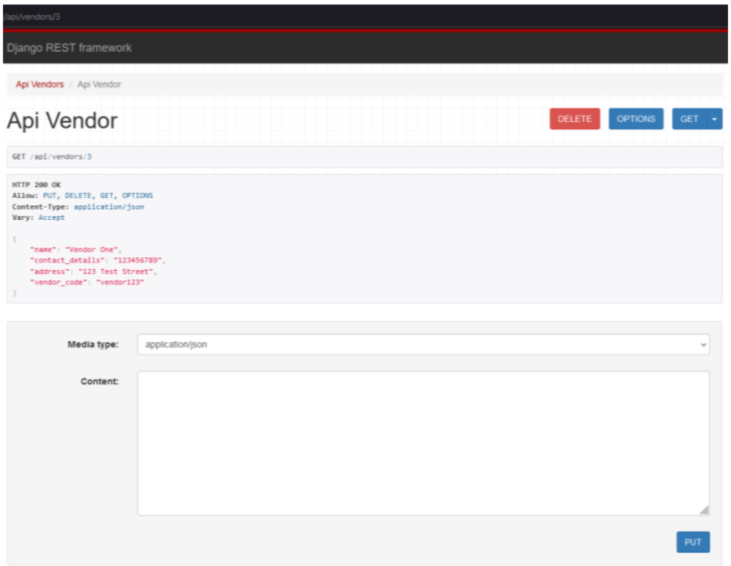
```
HTTP 200 OK
Allow: POST, GET, OPTIONS
Content-Type: application/json
Vary: Accept

[
    {
        "name": "Vendor One",
        "contact_details": "123456789",
        "address": "123 Test Street",
        "vendor_code": "vendor123"
    },
    {
        "name": "Vendor Two",
        "contact_details": "987654321",
        "address": "456 Main Street",
        "vendor_code": "vendor234"
    },
    {
        "name": "Vendor Three",
        "contact_details": "2647893674",
        "address": "789 Elm Street",
        "vendor_code": "vendor456"
    },
    {
        "name": "Vendor four",
        "contact_details": "4563728943",
        "address": "456 Ale Street",
        "vendor_code": "vendor789"
    }
]
```

Media type: application/json

Content:

- **GET specific vendor:**



```
GET /api/vendors/3
```

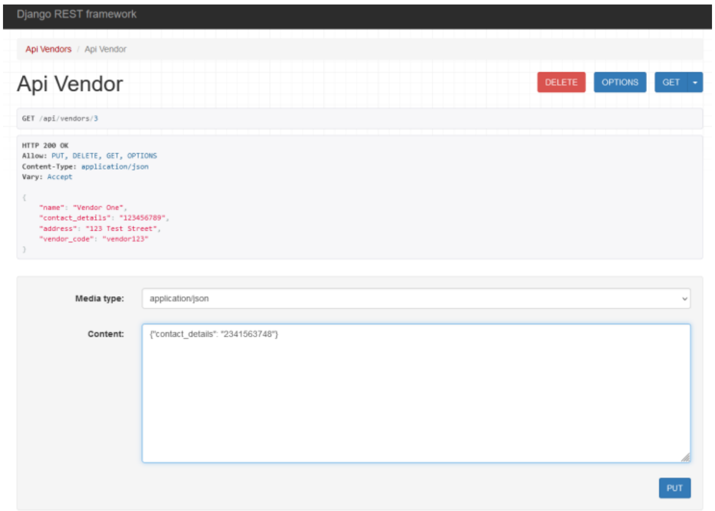
```
HTTP 200 OK
Allow: PUT, DELETE, GET, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "name": "Vendor One",
    "contact_details": "123456789",
    "address": "123 Test Street",
    "vendor_code": "vendor123"
}
```

Media type: application/json

Content:

- **PUT to update details of a vendor:**



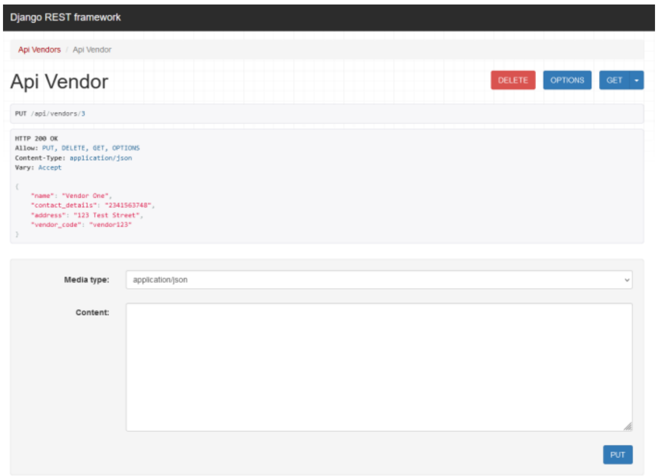
```
GET /api/vendors/3
```

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

{
    "name": "Vendor One",
    "contact_details": "123456789",
    "address": "123 Test Street",
    "vendor_code": "vendor123"
}
```

Media type: application/json

Content: {"contact_details": "2341563748"}



```
PUT /api/vendors/3
```

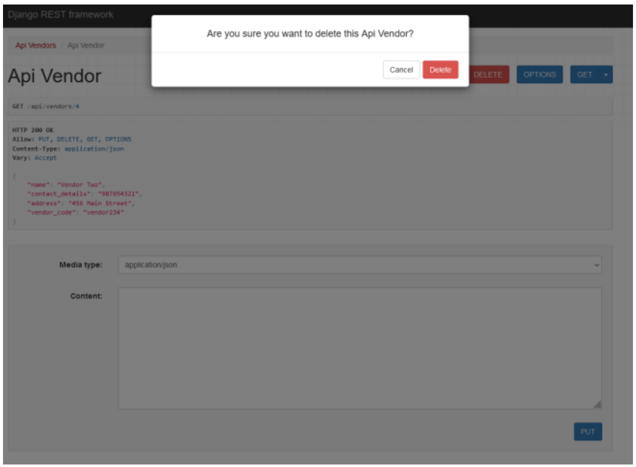
```
HTTP 200 OK
Allow: PUT, DELETE, GET, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "name": "Vendor One",
    "contact_details": "2341563748",
    "address": "123 Test Street",
    "vendor_code": "vendor123"
}
```

Media type: application/json

Content:

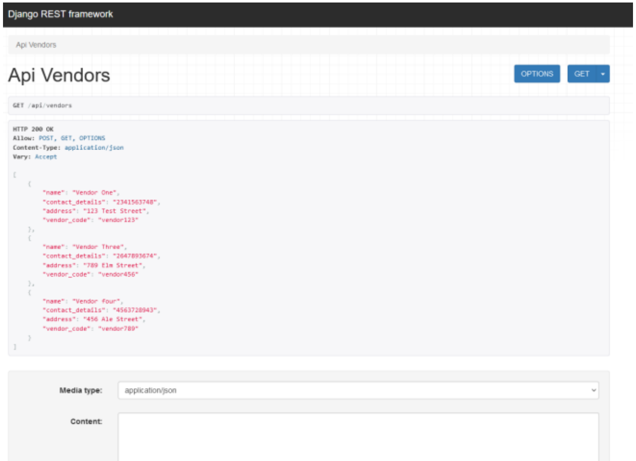
- **DELETE Vendor**



```
GET /api/vendors/4
```

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

{
    "name": "Vendor Two",
    "contact_details": "987654321",
    "address": "456 Main Street",
    "vendor_code": "vendor234"
}
```

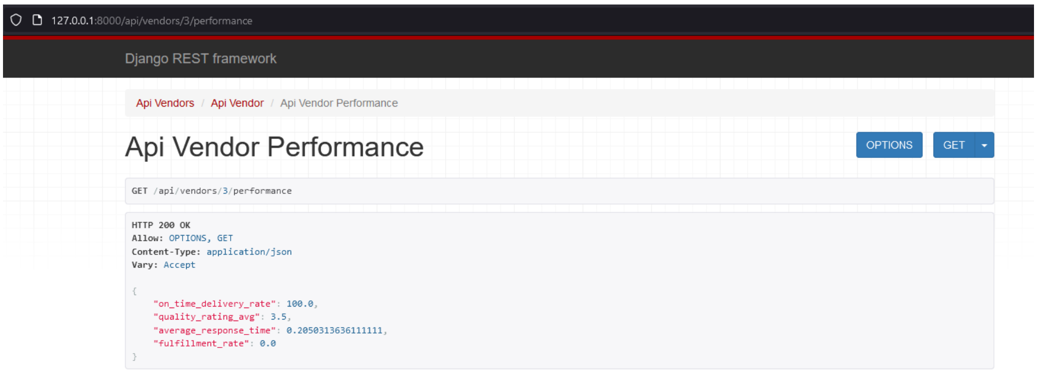


```
GET /api/vendors
```

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

[
    {
        "name": "Vendor One",
        "contact_details": "2341563748",
        "address": "123 Test Street",
        "vendor_code": "vendor123"
    },
    {
        "name": "Vendor Three",
        "contact_details": "2647893674",
        "address": "789 Elm Street",
        "vendor_code": "vendor456"
    },
    {
        "name": "Vendor four",
        "contact_details": "4563728943",
        "address": "456 Ale Street",
        "vendor_code": "vendor789"
    }
]
```

- **GET performance of vendor**

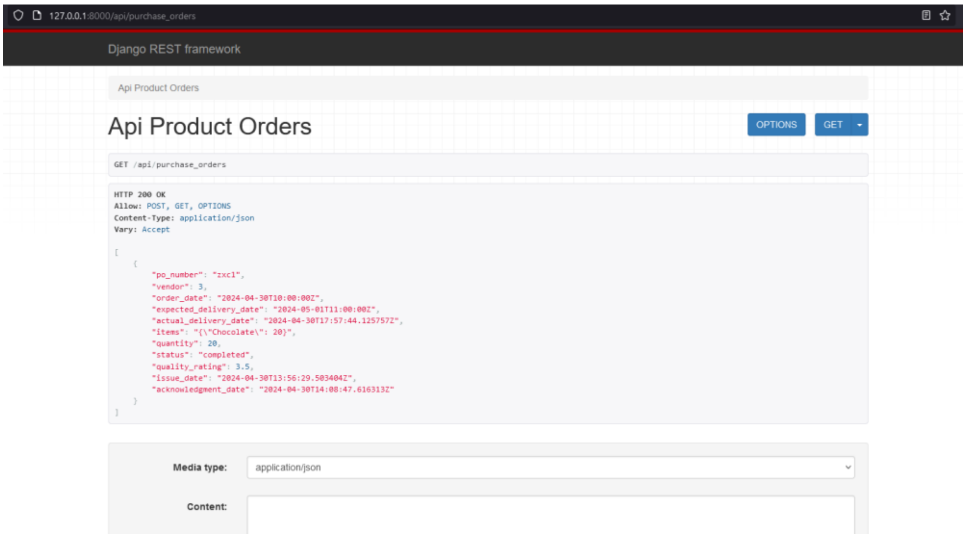

127.0.0.1:8000/api/vendors/3/performance
Django REST framework
Api Vendors / Api Vendor / Api Vendor Performance
Api Vendor Performance
OPTIONS
GET

```
GET /api/vendors/3/performance
```

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

{
    "on_time_delivery_rate": 100.0,
    "quality_rating_avg": 3.5,
    "average_response_time": 0.2050313636111111,
    "fulfillment_rate": 0.0
}
```

- **GET all purchase orders**



```
GET /api/purchase_orders
```

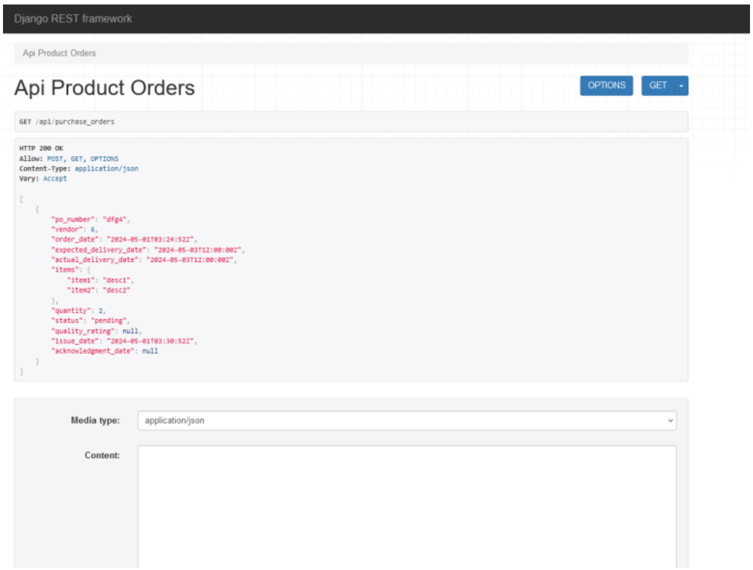
```
HTTP 200 OK
Allow: POST, GET, OPTIONS
Content-Type: application/json
Vary: Accept

[
    {
        "po_number": "zxc1",
        "vendor": 3,
        "order_date": "2024-04-30T10:00:00Z",
        "expected_delivery_date": "2024-05-01T11:00:00Z",
        "actual_delivery_date": "2024-04-30T17:57:44.125757Z",
        "items": "{\"Chocolate\": 20}",
        "quantity": 20,
        "status": "completed",
        "quality_rating": 3.5,
        "issue_date": "2024-04-30T13:56:29.503404Z",
        "acknowledgment_date": "2024-04-30T14:08:47.616313Z"
    }
]
```

Media type: application/json

Content:

- **POST a new purchase order**



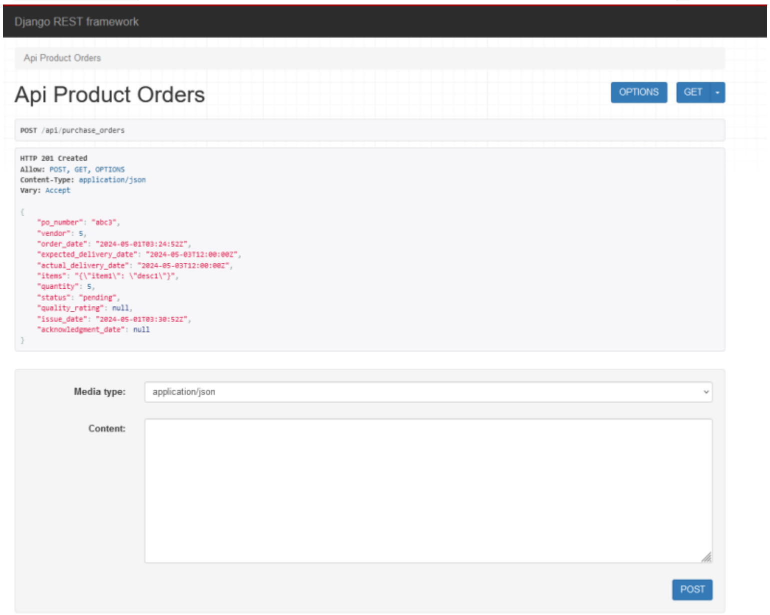
```
GET /api/purchase_orders
```

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

[
    {
        "po_number": "dfg4",
        "vendor": 6,
        "order_date": "2024-05-01T03:24:52Z",
        "expected_delivery_date": "2024-05-03T12:00:00Z",
        "actual_delivery_date": "2024-05-03T12:00:00Z",
        "items": {
            "item1": "desc1",
            "item2": "desc2"
        },
        "quantity": 2,
        "status": "pending",
        "quality_rating": null,
        "issue_date": "2024-05-01T03:30:52Z",
        "acknowledgment_date": null
    }
]
```

Media type: application/json

Content:



```
POST /api/purchase_orders
```

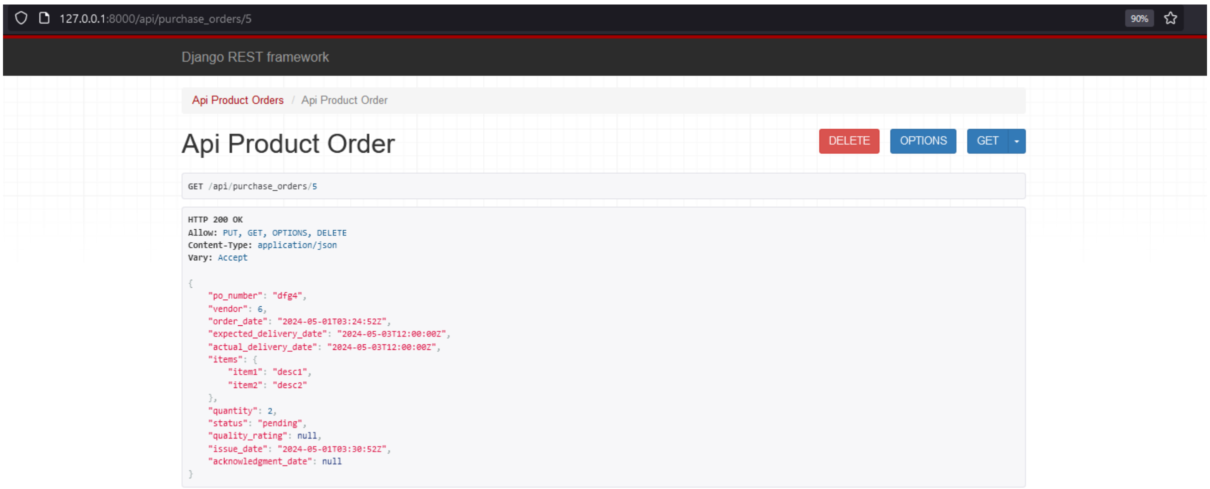
```
HTTP 201 Created
Allow: POST, GET, OPTIONS
Content-Type: application/json
Vary: Accept

{
    "po_number": "abc3",
    "vendor": 5,
    "order_date": "2024-05-01T03:24:52Z",
    "expected_delivery_date": "2024-05-03T12:00:00Z",
    "actual_delivery_date": "2024-05-03T12:00:00Z",
    "items": "{\"item1\": \"desc1\"}",
    "quantity": 5,
    "status": "pending",
    "quality_rating": null,
    "issue_date": "2024-05-01T03:30:52Z",
    "acknowledgment_date": null
}
```

Media type: application/json

Content:

- **GET specific purchase order**

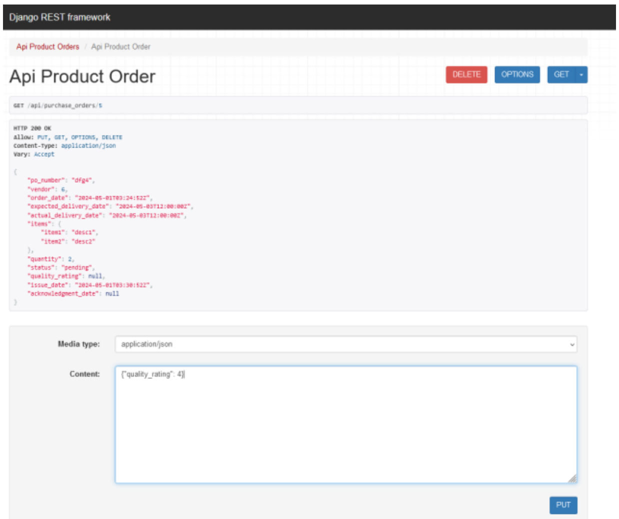

127.0.0.1:8000/api/purchase_orders/5
90%
Django REST framework
Api Product Orders / Api Product Order
Api Product Order
DELETE
OPTIONS
GET

```
GET /api/purchase_orders/5
```

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

{
    "po_number": "dfg4",
    "vendor": 6,
    "order_date": "2024-05-01T03:24:52Z",
    "expected_delivery_date": "2024-05-03T12:00:00Z",
    "actual_delivery_date": "2024-05-03T12:00:00Z",
    "items": {
        "item1": "desc1",
        "item2": "desc2"
    },
    "quantity": 2,
    "status": "pending",
    "quality_rating": null,
    "issue_date": "2024-05-01T03:30:52Z",
    "acknowledgment_date": null
}
```

- **PUT to update a purchase order**



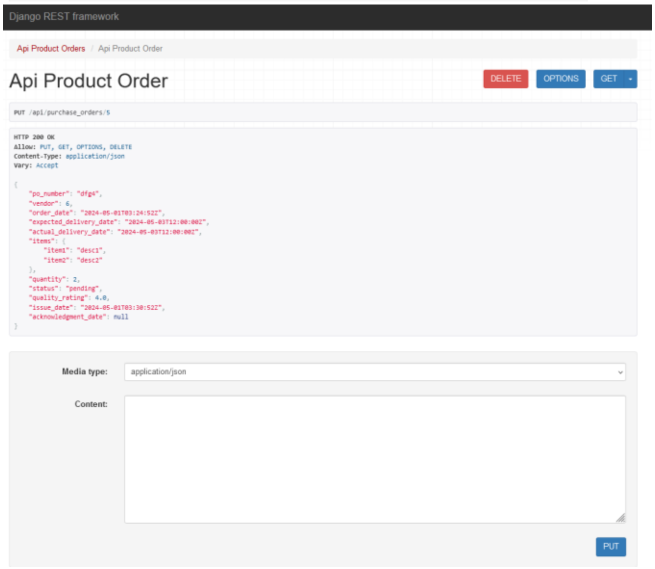
```
GET /api/purchase_orders/5
```

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

{
    "po_number": "dfg4",
    "vendor": 6,
    "order_date": "2024-05-01T03:24:52Z",
    "expected_delivery_date": "2024-05-03T12:00:00Z",
    "actual_delivery_date": "2024-05-03T12:00:00Z",
    "items": {
        "item1": "desc1",
        "item2": "desc2"
    },
    "quantity": 2,
    "status": "pending",
    "quality_rating": null,
    "issue_date": "2024-05-01T03:30:52Z",
    "acknowledgment_date": null
}
```

Media type: application/json

Content: {"quality_rating": 4}



```
PUT /api/purchase_orders/5
```

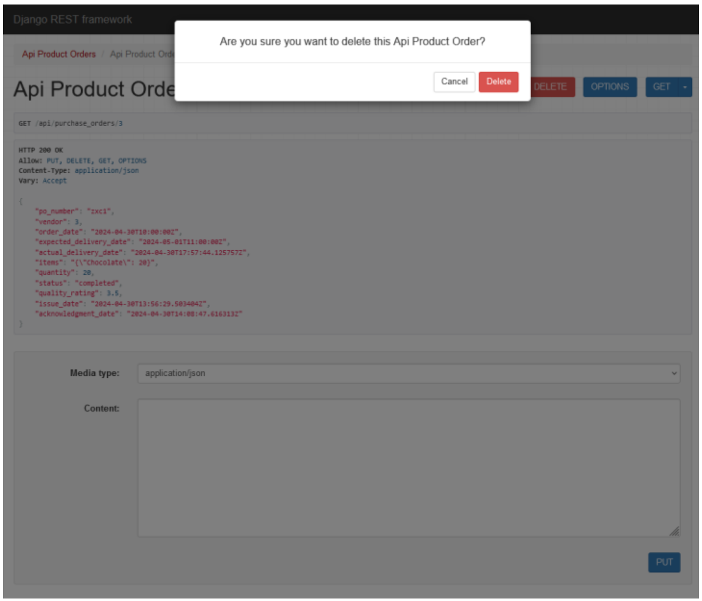
```
HTTP 200 OK
Allow: PUT, GET, OPTIONS, DELETE
Content-Type: application/json
Vary: Accept

{
    "po_number": "dfg4",
    "vendor": 6,
    "order_date": "2024-05-01T03:24:52Z",
    "expected_delivery_date": "2024-05-03T12:00:00Z",
    "actual_delivery_date": "2024-05-03T12:00:00Z",
    "items": {
        "item1": "desc1",
        "item2": "desc2"
    },
    "quantity": 2,
    "status": "pending",
    "quality_rating": 4.0,
    "issue_date": "2024-05-01T03:30:52Z",
    "acknowledgment_date": null
}
```

Media type: application/json

Content:

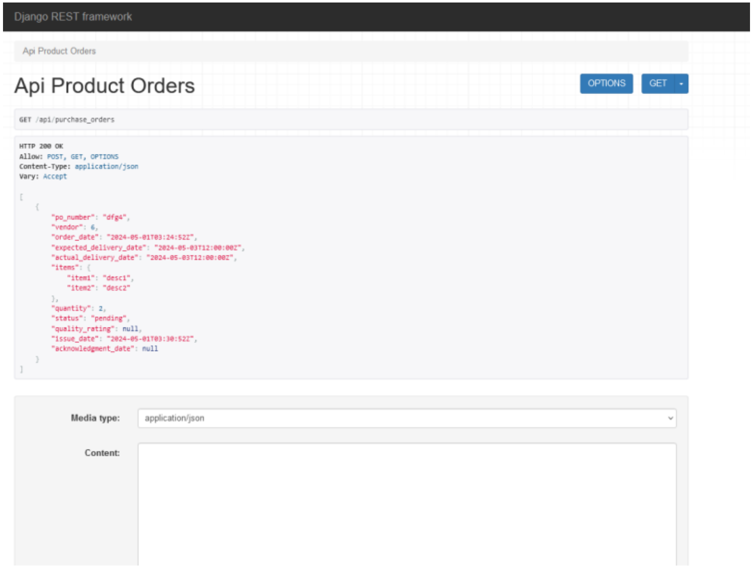
- **DELETE a purchase order**



```
GET /api/purchase_orders/3
```

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

{
    "po_number": "zxc1",
    "vendor": 3,
    "order_date": "2024-04-30T10:00:00Z",
    "expected_delivery_date": "2024-05-01T11:00:00Z",
    "actual_delivery_date": "2024-04-30T17:57:44.125757Z",
    "items": "{\"Chocolate\": 20}",
    "quantity": 20,
    "status": "completed",
    "quality_rating": 3.5,
    "issue_date": "2024-04-30T13:56:29.503404Z",
    "acknowledgment_date": "2024-04-30T14:08:47.616313Z"
}
```

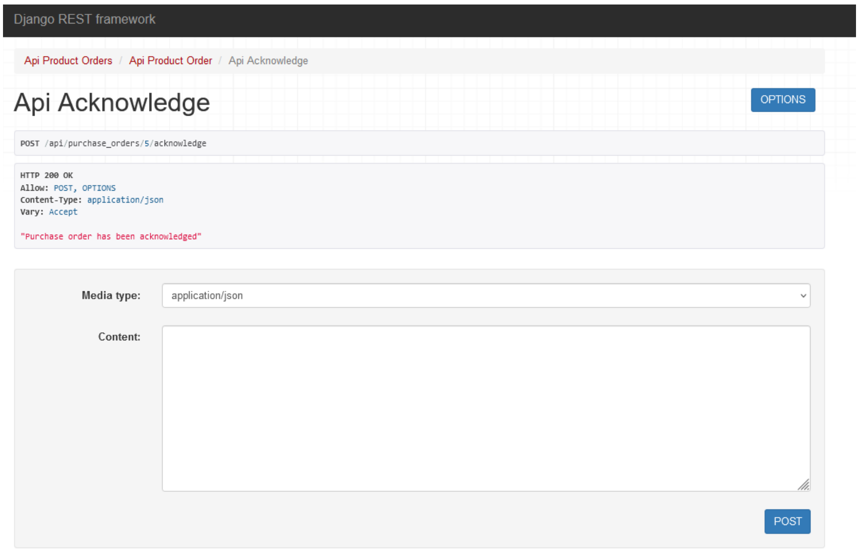


```
GET /api/purchase_orders
```

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

[
    {
        "po_number": "dfg4",
        "vendor": 6,
        "order_date": "2024-05-01T03:24:52Z",
        "expected_delivery_date": "2024-05-03T12:00:00Z",
        "actual_delivery_date": "2024-05-03T12:00:00Z",
        "items": {
            "item1": "desc1",
            "item2": "desc2"
        },
        "quantity": 2,
        "status": "pending",
        "quality_rating": null,
        "issue_date": "2024-05-01T03:30:52Z",
        "acknowledgment_date": null
    }
]
```

- **POST Acknowledgement**



```
POST /api/purchase_orders/5/acknowledge
```

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

"Purchase order has been acknowledged"
```