

API DOCUMENTATION

ItemList API Endpoint Documentation:

Overview

The ItemList endpoint provides a list of items and allows for filtering based on various attributes such as SKU, name, category, and tags.

Base URL

<http://127.0.0.1:8000/items/>

HTTP Method

GET

Query Parameters

- sku (string, optional): The stock keeping unit identifier for the item.
- name (string, optional): The name of the item, which supports partial matches.
- category_id (integer, optional): The identifier of the category to which the item belongs.
- tag_ids (list of integers, optional): A list of tag identifiers associated with the item.

Request Examples

Filter by SKU

```
sql
```

```
GET /items/?sku=NEW-SKU
```

Filter by Name

```
sql
```

```
GET /items/?name=New%20Item
```

Filter by Category ID

```
bash
```

```
GET /items/?category_id=1
```

Filter by Multiple Tag IDs

```
bash
```

```
GET /items/?tag_ids=1&tag_ids=2
```

Response Format

Upon a successful request, the API returns a list of items, each with the following structure:
json

```
[  
  {  
    "sku": "string",
```

```

    "name": "string",
    "category": {
      "id": "integer",
      "name": "string"
    },
    "tags": [
      {
        "id": "integer",
        "name": "string"
      },
      {
        "id": "integer",
        "name": "string"
      }
    ],
    "in_stock": "decimal",
    "available_stock": "decimal"
  }
  // ... additional items
]

```

Successful Response Example

A successful response for a request to GET /items/?name=New%20Item might look like:
json

```

HTTP/1.1 200 OK
Content-Type: application/json

```

```

[
  {
    "sku": "NEW-SKU",
    "name": "New Item Name",
    "category": {
      "id": 1,
      "name": "New Category"
    },
    "tags": [
      {
        "id": 1,
        "name": "New"
      },
      {
        "id": 2,
        "name": "Sample"
      }
    ]
  },
]

```

```
    "in_stock": "100.000",  
    "available_stock": "80.000"  
  }  
]
```

Error Response Example

If there are any errors (e.g., invalid query parameters), the API might return a response like:
json

HTTP/1.1 400 Bad Request
Content-Type: application/json

```
{  
  "error": "Invalid query parameters."  
}
```

Attached are the screenshots of the execution:

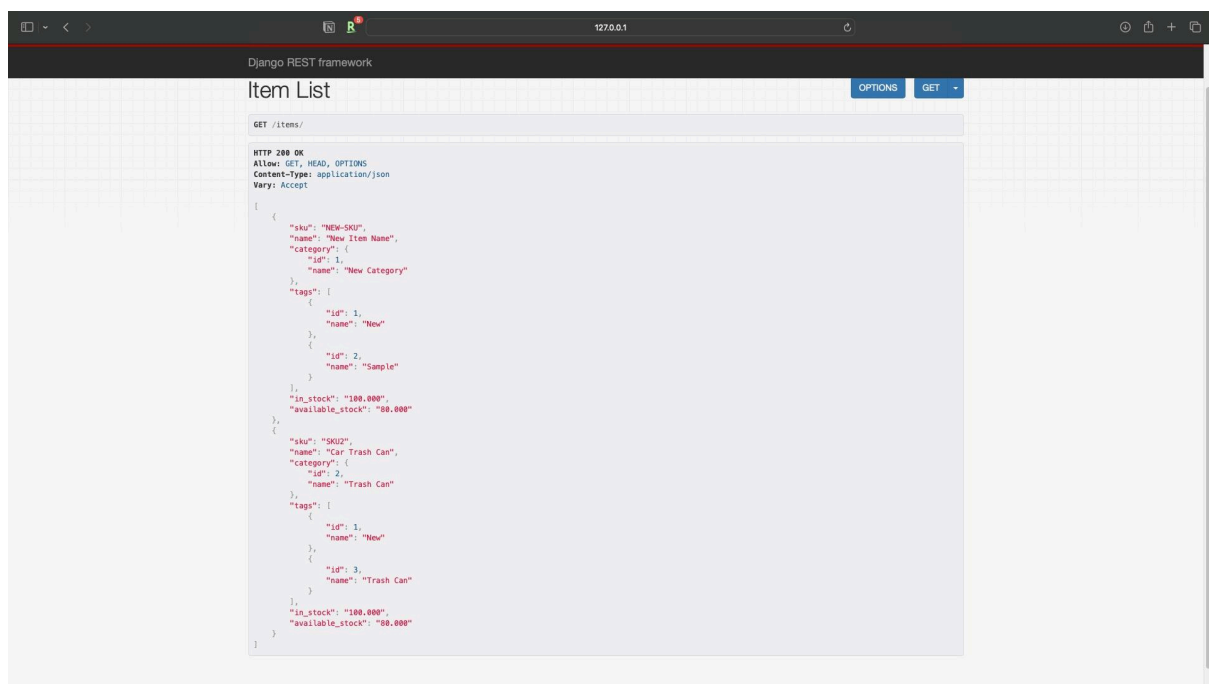


Fig 1: Result of Successful execution of the endpoint

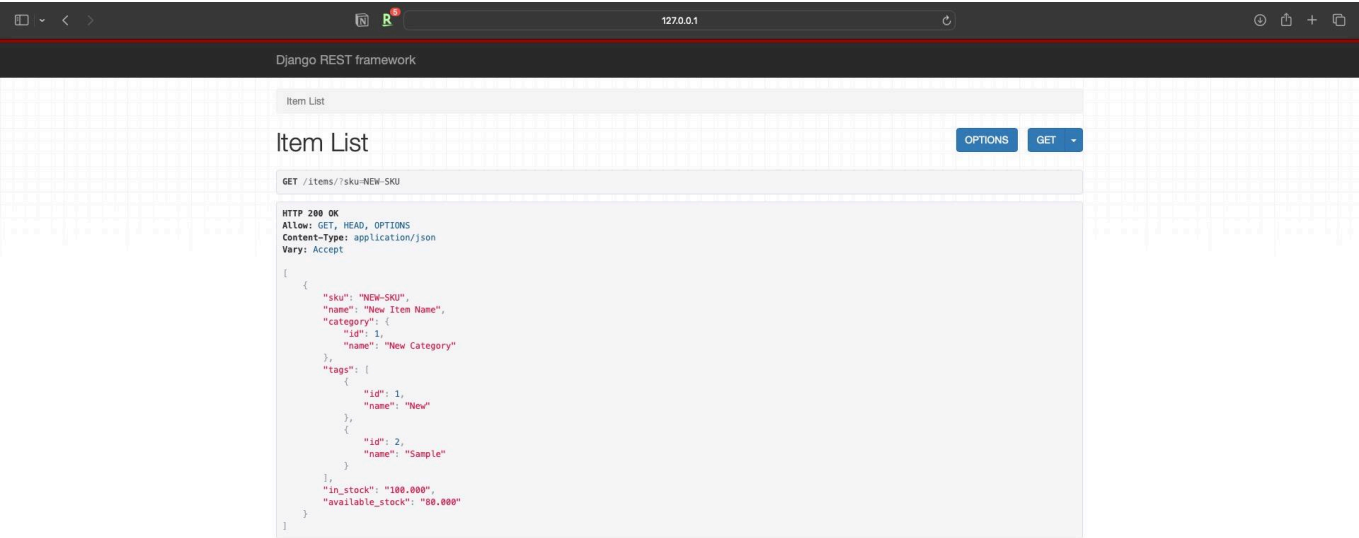


Fig 2: Result of Successful execution of the endpoint with Filter

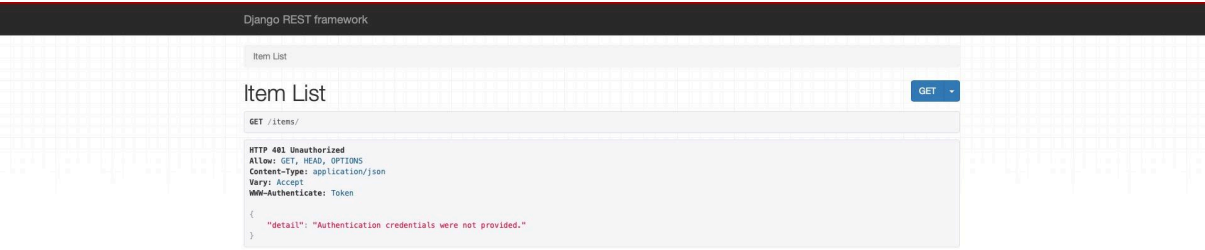


Fig 3: Result of Successful execution of the endpoint with user Authentication