

Here's a detailed API documentation for the `employee_operations` endpoint, which includes instructions for each method.

Employee API Documentation

Base URL: `https://api.example.com/`

Endpoint: `/employees/`

Authentication

Method: Bearer Token

Header:

Authorization: Bearer <YOUR_API_KEY>

Endpoints

1. Get Employee(s)

Method: GET

Endpoint: `/employees/` or `/employees/{id}/`

Description

Retrieves employee details. If an id is provided, returns a specific employee's details; otherwise, returns a paginated list of employees.

URL Parameters

id (optional): Unique identifier of the employee.

Query Parameters

department (optional): Filters employees by department.

role (optional): Filters employees by role.

Response (Single Employee)

Success (200 OK):

json

```
{
  "id": 1,
  "name": "John Doe",
  "department": "IT",
  "role": "Developer"
}
```

Error (404 Not Found):

json

```
{
  "error": "Employee not found"
}
```

Response (Paginated List of Employees)

Success (200 OK):

json

```
{
  "count": 50,
  "next": "https://api.example.com/employees/?page=2",
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": "John Doe",
      "department": "IT",
      "role": "Developer"
    },
    ...
  ]
}
```

}

2. Create an Employee

Method: POST

Endpoint: /employees/

Description

Creates a new employee record.

Request Body

name (string, required): Name of the employee.

department (string, required): Department where the employee works.

role (string, required): Employee's role.

Example Request

json

```
{
  "name": "John Doe",
  "department": "IT",
  "role": "Developer"
}
```

Response

Success (201 Created):

json

```
{
  "message": "Employee details created successfully",
  "data": {
    "id": 1,
    "name": "John Doe",
    "department": "IT",
    "role": "Developer"
  }
}
```

Error (400 Bad Request):

json

```
{
  "name": ["This field is required."]
}
```

3. Update an Employee

Method: PUT

Endpoint: /employees/{id}/

Description

Updates details of an existing employee.

URL Parameters

id (required): Unique identifier of the employee.

Request Body

name (string, optional): Updated name.

department (string, optional): Updated department.

role (string, optional): Updated role.

Example Request

json

```
{
  "name": "Jane Doe",
  "department": "HR",
  "role": "Manager"
}
```

Response

Success (200 OK):

```
json
{
  "message": "Employee details updated successfully",
  "data": {
    "id": 1,
    "name": "Jane Doe",
    "department": "HR",
    "role": "Manager"
  }
}
```

Error (404 Not Found):

```
json
{
  "error": "Employee not found"
}
```

Error (400 Bad Request):

```
json
{
  "name": ["This field is required."]
}
```

4. Delete an Employee

Method: DELETE

Endpoint: /employees/{id}/

Description

Deletes an employee record.

URL Parameters

id (required): Unique identifier of the employee.

Response

Success (204 No Content):

```
json
{
  "message": "Employee deleted successfully"
}
```

Error (404 Not Found):

```
json
{
  "error": "Employee not found"
}
```

5. Filtering

Method: GET

Endpoint: /employees/??department=HR

Description

Filtering the employees

Query Parameters for Filtering

department – Filters employees based on their department.

Type: String (case-insensitive)

Example: ?department=IT

role – Filters employees based on their role.

Type: String (case-insensitive)

Example: ?role=Developer

6. Filter by Department

http://127.0.0.1:8000/api/employees/??department=HR

Success (200):

```
{
  "count": 4,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": "mani",
      "email": "manikantakotla1998@gmail.com",
      "department": "Hr",
      "role": "Manager",
      "date_joined": "2024-10-31"
    }
  ]
}
```

7. Filter by Role

To retrieve a list of employees with the Manager role:

Success (200):

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 5,
      "name": "m",
      "email": "m1998@gmail.com",
      "department": "Hr",
      "role": "Manager",
      "date_joined": "2024-10-31"
    }
  ]
}
```

8) Pagination in Employee API

Endpoint: GET /employees/

Overview

The API uses Page Number Pagination, where results are divided into pages. The default page size is 10 records per page, but this may be adjusted if needed.

Query Parameters for Pagination

page – Specifies which page to retrieve.

Type: Integer

Example: ?page=2

Success (200):

```
{
  "count": 12,
  "next": "http://127.0.0.1:8000/api/employees/?page=2",
  "previous": null,
  "results": [
    {
      "id": 1,
      "name": "mani",

```

```
    "email": "manikantakotla1998@gmail.com",
    "department": "Hr",
    "role": "dev",
    "date_joined": "2024-10-31"
  },
  {
    "id": 2,
    "name": "mani",
    "email": "manikantakotlaa1998@gmail.com",
    "department": "Engineering",
    "role": "dev",
    "date_joined": "2024-10-31"
  },
  {
    "id": 3,
    "name": "manikotla",
    "email": "manikantakotlla1998@gmail.com",
    "department": "Sales",
    "role": "dev",
    "date_joined": "2024-10-31"
  },
  {
    "id": 4,
    "name": "n",
    "email": "manikantaotlaaq1998@gmail.com",
    "department": "Hr",
    "role": "dev",
    "date_joined": "2024-10-31"
  },
  {
    "id": 5,
    "name": "m",
    "email": "m1998@gmail.com",
    "department": "Engineering",
    "role": "Manager",
    "date_joined": "2024-10-31"
  },
  {
    "id": 6,
    "name": "k",
    "email": "k1998@gmail.com",
    "department": "Sales",
    "role": "Sales",
    "date_joined": "2024-10-31"
  },
  {
    "id": 7,
    "name": "a",
    "email": "a1998@gmail.com",
    "department": "Sales",
    "role": "Developer",
    "date_joined": "2024-10-31"
  },
  {
    "id": 8,
    "name": "k",
```

```

    "email": "h1998@gmail.com",
    "department": "HR",
    "role": "Analyst",
    "date_joined": "2024-10-31"
  },
  {
    "id": 9,
    "name": "p",
    "email": "p1998@gmail.com",
    "department": "HR",
    "role": "Analyst",
    "date_joined": "2024-10-31"
  },
  {
    "id": 10,
    "name": "p",
    "email": "km1998@gmail.com",
    "department": "HR",
    "role": "Analyst",
    "date_joined": "2024-10-31"
  }
]

```

Error Codes

400 Bad Request: Invalid or missing parameters in the request.

401 Unauthorized: Invalid or missing authentication token.

404 Not Found: Resource not found.

500 Internal Server Error: Unexpected server error.

This documentation provides a complete reference for using the `employee_operations` endpoint effectively, covering all supported HTTP methods and typical request/response examples.