SEARCH APP API DOCUMENTATION

# OVERVIEW

For the development of this “Search App” I have used SQL server as database and to write my business logic I have used the mediator pattern and if I talk about the project architecture I have used clean architecture. For the purpose of API testing I have used **xunit** library. Created a common **middleware** to handle http request and **global exception** handling and request response logging using **NLog**.

**Author:** Yogesh Kumar Acharya

**Technology Used:** .NET Core, Entity Framework

**Database:** Relational Database Using SQL

**Authentication:** JSON Web Token (Bearer)

**Base URL:** https://localhost: 44337/

## AUTH API

### Login

**Description**: Authenticates a user with the login credentials.

**Http Method**: POST:   
**Authentication:** Anonymous for login API only  
**API URL:** [api/Auth/GetAccessToken](https://localhost:port/api/User/login)

**Request Payload:**

**{**

**"username": "Admin@Yahoo.com",**

**"password": "Admin@786"**

**}**

**API Response**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": {**

**"accessToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYWltcy9uYW1lIjoiMzhjYTk4OTAtNTJjZS00NjQ0LTg4ZTQtMTU1ZWEzZWFlNDJkIiwiVXNlcklkIjoiMzhjYTk4OTAtNTJjZS00NjQ0LTg4ZTQtMTU1ZWEzZWFlNDJkIiwiaHR0cDovL3NjaGVtYXMubWljcm9zb2Z0LmNvbS93cy8yMDA4LzA2L2lkZW50aXR5L2NsYWltcy9yb2xlIjoiRW1wbG95ZWUiLCJleHAiOjE3NDYxMDM3MDksImlzcyI6IlRlc3QuY29tIiwiYXVkIjoiVGVzdC5jb20ifQ.0S4jw\_z1JaV\_rlUcBDtmI-B5DV\_M9J-UGA9Xn9svrUc",**

**"userId": "38ca9890-52ce-4644-88e4-155ea3eae42d"**

**}**

**}**

## Employee Controller

### **Add New Employee**

**Description**: Add New Employee in our system

**Http Method**: POST

**Authentication**: JSON Web Token (Bearer)

**API URL**: api/Employee/AddEmployee

**Request Payload:**

**{**

**"name": "Rakesh",**

**"email": "Rakesh@Yahoo.com",**

**"phone": "7678565434",**

**"password": "Rakesh@051",**

**"department": "Helpdesk",**

**"salary": 20000,**

**"createdDate": "2025-04-27",**

**"isActive": true**

**}**

**API Response**:

**Success Response**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": {**

**"userId": null,**

**"responseStatus": true,**

**"responseMessage": "Employee Added Successfully!"**

**}**

**}**

**Error Response**:

**{**

**"type": "https://tools.ietf.org/html/rfc9110#section-15.5.1",**

**"title": "One or more validation errors occurred.",**

**"status": 400,**

**"errors": {**

**"Name": [**

**"Employee name is required"**

**]**

**},**

**"traceId": "00-95b64789aaa8e0e71386995e79d9029f-96aa6994bc1510f0-00"**

**}**

### **Get All Employees**

**Description**: Fetch all employees details

**Http Method**: POST

**Authentication**: JSON Web Token (Bearer)

**API URL**: api/Employee/GetAllEmployees

**API Response**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": [**

**{**

**"id": "38ca9890-52ce-4644-88e4-155ea3eae42d",**

**"name": "Admin",**

**"email": "Admin@Yahoo.com",**

**"phone": "8767543423",**

**"department": "Admin",**

**"salary": 48000,**

**"createdDate": "2025-04-27T14:15:06.737",**

**"isActive": true**

**},**

**{**

**"id": "5e46beea-3463-48a9-aa74-6bdac8de0743",**

**"name": "Rakesh",**

**"email": "Rakesh@Yahoo.com",**

**"phone": "7678565434",**

**"department": "Helpdesk",**

**"salary": 20000,**

**"createdDate": "2025-04-27T00:00:00",**

**"isActive": true**

**}**

**]**

**}**

### **Search Employee**

**Description**: Fetch employees which are match with query and sort the results the by different criteria such as Name, Date, Salary, Department and pagination.

**HTTP Method**: POST

**Authentication**: JSON Web Token (Bearer)

**API URL**: api/Employee/SearchEmployee

**Request Payload**:

**{**

**"department": "",**

**"name": "Abhishek",**

**"salary": 75000.00,**

**"fromDate": "2025-04-25",**

**"toDate": "2025-04-27",**

**"recordsPerRequest": 5,**

**"sortBy": "Date",**

**"sortOrder": "Asc"**

**}**

**API Response**:

**Success Response**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": [**

**{**

**"id": "3379dd31-4ca2-451f-81d5-8e8e394ba9ac",**

**"name": "Abhishek Joshi",**

**"email": "AbhishekJoshi@Yahoo.com",**

**"phone": "8987898897",**

**"department": "Technology",**

**"salary": 50000,**

**"createdDate": "2025-04-25T20:13:47.62"**

**},**

**{**

**"id": "296fcadb-3dcf-47de-8ef0-c9a8fca0f74c",**

**"name": "Abhishek",**

**"email": "Abhishek@Yahoo.com",**

**"phone": "8987898767",**

**"department": "HR",**

**"salary": 75000,**

**"createdDate": "2025-04-27T20:13:47.62"**

**}**

**]**

**}**

**Error Response:**

**{**

**"StatusCode": 404,**

**"Message": "Fail",**

**"IsError": true,**

**"ResponseException": {**

**"exceptionMessage": "Failed: Data not found",**

**"details": null,**

**"validationErrors": null**

**},**

**"Result": null**

**}**

### **Search Employee By Get Method (Query String)**

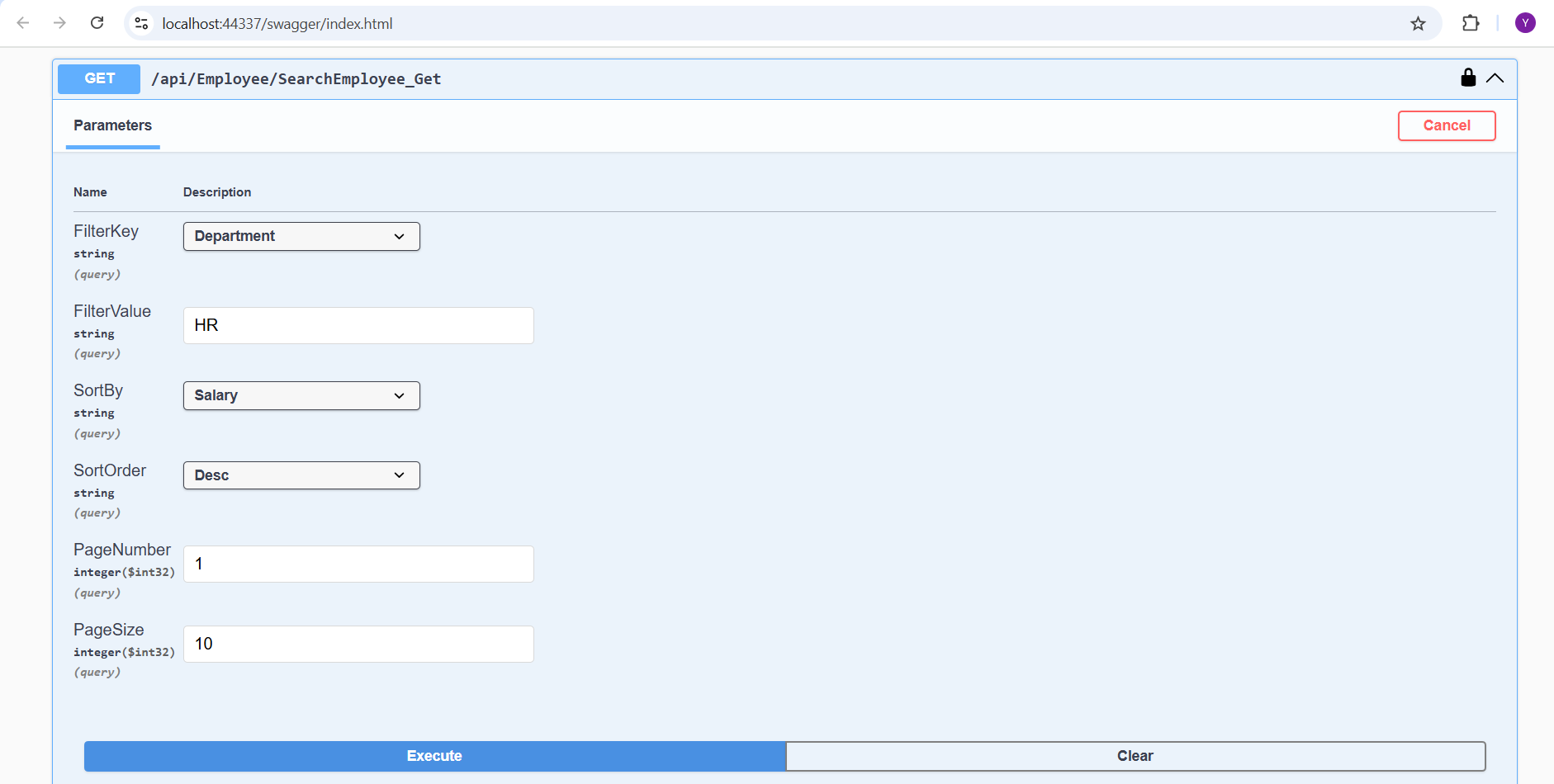
**Description**: Fetch employees which are match with query and sort the results the by different criteria such as Name, Date, Salary, Department and pagination.

**HTTP Method**: GET

**Authentication**: JSON Web Token (Bearer)

**API URL**: api/Employee/ SearchEmployee\_Get

**Request Payload**: Query String



**API Response body**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": [**

**{**

**"id": "22adb8cd-95ce-4574-b144-198adf4fc3d2",**

**"name": "RAM",**

**"email": "RAM@Yahoo.com",**

**"phone": "6767676677",**

**"department": "HR",**

**"salary": 250000,**

**"createdDate": "2025-04-29T07:40:47.963",**

**"isActive": true**

**},**

**{**

**"id": "e450b587-5555-47ab-a11a-eeefc9b6fedc",**

**"name": "Abhishek",**

**"email": "Abhishek@Yahoo.com",**

**"phone": "7678545634",**

**"department": "HR",**

**"salary": 40000,**

**"createdDate": "2025-04-28T22:11:52.157",**

**"isActive": true**

**}**

**]**

**}**

### **Get Search History**

**Description**: Get search history to revisit previous searches.

**HTTP Method**: POST

**Authentication**: JSON Web Token (Bearer)

**API URL**: api/Employee/GetEmployeeSearchHistory

**Request Payload**: Nothing, will get userid from token and get all search history perform by user

**API Response**:

**Success Response**:

**{**

**"StatusCode": 200,**

**"Message": "Request successful.",**

**"IsError": false,**

**"ResponseException": null,**

**"Result": [**

**{**

**"id": 14,**

**"department": "",**

**"name": "Abhishek",**

**"salary": 75000,**

**"fromDate": "2025-04-25",**

**"toDate": "2025-04-27",**

**"recordsPerRequest": 5,**

**"sortBy": "Date",**

**"sortOrder": "Asc",**

**"userId": "38ca9890-52ce-4644-88e4-155ea3eae42d",**

**"searchDate": "2025-04-27T14:53:23.423",**

**"resultCount": 1**

**}**

**]**

**}**

**Error Response:**

**{**

**"StatusCode": 404,**

**"Message": "Fail",**

**"IsError": true,**

**"ResponseException": {**

**"exceptionMessage": "Failed: Data not found",**

**"details": null,**

**"validationErrors": null**

**},**

**"Result": null**

**}**