API DOCUMENTATION

# OVERVIEW

This API allows users to authenticate, search for books, and retrieve search history. It is built on the .NET Core framework and uses the MediatR library for command and query handling.

## USER API

### Login

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

**EndPoints**: POST: <https://localhost:port/api/User/login>

**Request Body:**

{

"username": "dharani",

"password": "123456"

}

**Response**:

**Success**:

{

    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYWltcy9uYW1lIjoiZGhhcmFuaSIsIlVzZXJJZCI6IjEiLCJleHAiOjE3Mjk0OTM4ODgsImlzcyI6IlRlc3QuY29tIiwiYXVkIjoiVGVzdC5jb20ifQ.q3Qnl\_TKZjUckKhHHIePqnHyVj7F208FDMwc9IuZJzE",

    "userId": 1

}

**Error**:

{

"StatusCode": 400,

"Message": "An error occurred while processing your request. Please try again later.",

"Detailed": "An exception occurred: String reference not set to an instance of a String. (Parameter 's'), , Type: System.Text.Encoding:GetBytes, Line: 0",

"Id": "e6a5cf9c-e5c0-4b76-be68-c9fd6b10fd2e"

}

## SEARCH API

### **SearchBooks**

**Description**: Searches for books based on the provided query and optional filters and sort

**Endpoints**: GET: <https://localhost:port/api/Search/books>

**QueryParameters**:

- `query` (string): The search term (required).

- `filter` (string, optional): Filter criteria (allowed values: `title`, `author`, `summary`, `tags`).

- `sort` (string, optional): Sorting criteria (allowed values: `title`, `author`, `summary`, `tags`).

**Response**:

**Success**:

[

    {

        "id": 145,

        "title": "The Great Gatsby",

        "summary": "A novel set in the 1920s about Jay Gatsby and his mysterious wealth and love for Daisy Buchanan.",

        "author": "F. Scott Fitzgerald",

        "tags": "classic, American literature, 1920s",

        "genre": "Fiction",

        "ratings": 4.50,

        "publishDate": "1925-04-10T00:00:00",

        "price": 15.99

    },

…

]

**Error**:

{

"StatusCode": 404,

"Message": "An error occurred while processing your request. Please try again later.",

"Detailed": "An unhandled exception occurred: Query cannot be found. Please try again with different query, Type: SearchBarWebAPI.Search.API.Controllers.SearchController+<SearchBooks>d\_\_2:MoveNext, Line: 59",

"Id": "ecc80dc8-5228-4109-8324-92301b49824b"

}

### **SearchHistory**

**Description**: Retrieves the search history for the authenticated user.

**Endpoints**: <https://localhost:port/api/Search/history>

**Response**:

**Success**

[

{

"id": 2018,

"searchTerm": "novel",

"filterTerm": null,

"userId": 1,

"searchDate": "2024-10-19T23:02:50.157",

"resultCount": 17

},

…

]

### **SearchResult**

**Description**: Retrieves search results based on the provided search history ID and optional sorting

**Endpoints**: GET: https://localhost:port/api/Search/searchresult

**QueryParameters**:

- `searchHistoryId` (integer, optional): The ID of the search history record.

- `sort` (string, optional): Sorting criteria (allowed values: `title`, `author`, `ratings`, `relevancescore`).

**Response**:

**Success**:

[

{

"id": 2037,

"searchHistoryId": 2021,

"bookId": 145,

"title": "The Great Gatsby",

"summary": "A novel set in the 1920s about Jay Gatsby and his mysterious wealth and love for Daisy Buchanan.",

"author": "F. Scott Fitzgerald",

"tags": "classic, American literature, 1920s",

"genre": "Fiction",

"ratings": 4.5,

"publishDate": "1925-04-10T00:00:00",

"price": 15.99,

"relevanceScore": 7297.15,

"searchDate": "2024-10-21T10:10:59.18"

},

…

]

**Error:**

{

"StatusCode": 404,

"Message": "An error occurred while processing your request. Please try again later.",

"Detailed": "An unhandled exception occurred: No searchresults found, Type: SearchBarWebAPI.Search.API.Controllers.SearchController+<GetSearchResult>d\_\_4:MoveNext, Line: 108",

"Id": "d47a3303-4bfb-4e79-84ba-2e53eb7fb902"

}