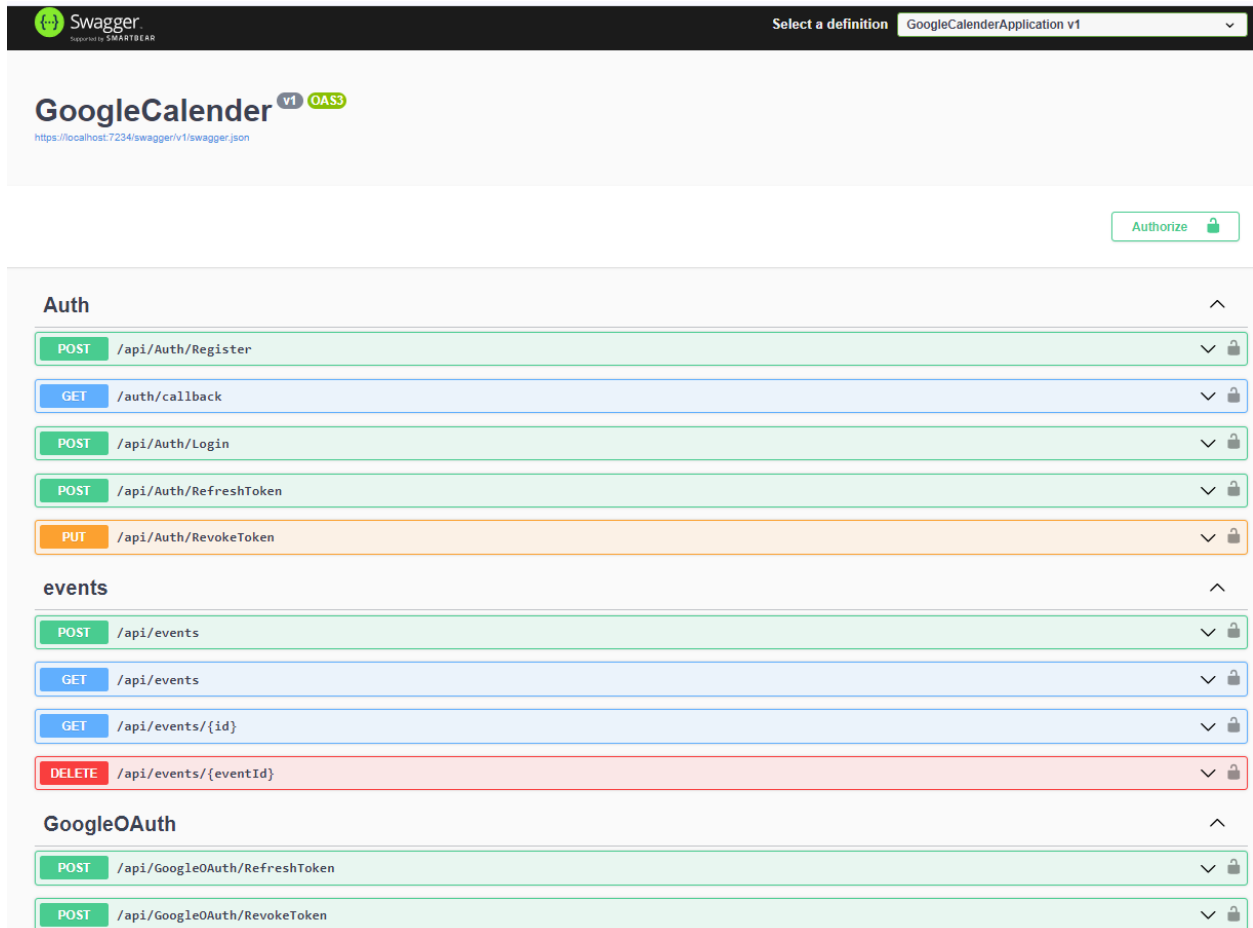# API Endpoint Documentation:

Overview: This .NET Core API project provides integration with the Google Calendar API for retrieving events. It requires OAuth 2.0 authentication to access the calendar data.

Endpoints:

Auth: it has the endpoints that respond to access to the App and also have the endpoints that The Users must obtain OAuth 2.0 credentials from the Google Developer Console.

A. /api/Auth/Register: This endpoint facilitates user registration for the app.
   Response Format: The response will be in JSON format, including data and a URL that redirects to the OAuth 2.0 credentials.

B. /api/callback: This endpoint is triggered once you grant the app permission to access your Google Calendar.

C. /api/Auth/login: This endpoint is used for user authentication.

D. /api/Auth/RefreshToken: Use this endpoint to refresh the access token for the app and OAuth 2.0.

E. /api/Auth/RevokeToken: This endpoint is for revoking the access token for the app and OAuth 2.0.

events: This section contains endpoints for managing Google Calendar events.
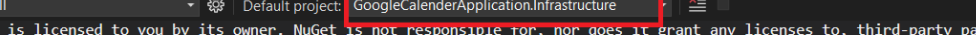
- A. /api/events (Post): Create a new event in the calendar using this endpoint.
- B. /api/events (Get): Retrieve a list of all events in the Google Calendar.
- C. /api/events/{id} (Get): Get a specific event by its ID.
- D. /api/events/{eventId} (Delete): Delete a specific event by its ID.

GoogleOAuth: This section includes endpoints for refreshing and revoking the tokens obtained from Google.

- A. /api/GoogleOAuth/RefreshToken: Obtain a new refresh token from Google, enabling access to the calendar to add, delete, or view events.
- B. /api/GoogleOAuth/RevokeToken : Revoke the permissions granted by the user to the app, restricting access to the calendar.

Setting up and Running the Application:

- A. Change the connection string in the appsettings.json
- B. Run a migration (note: you should choose the infrastructure layer which contain the DbContext)

- C. Now you can call the register api that gives you the url for the Google OAuth

- D. Continue with the google OAuth and Give the permissions
- E. Now you can use events apis for create, list, and delete events