

# Analysis API Task NASA

## Tools and Technologies Required

**Programming Language:** The task specifies that any Object-Oriented Programming (OOP) language can be used, with a preference for C#. I am using Java.

**Libraries:** URI and HTTP for communication with the API, both included in java.net. Gson for working with JSON.

**API Documentation:** API offers various endpoints and parameters for performing a search. We are going to be using /search endpoint and focus on combination of five parameters - q (free text search), keywords, media\_type, year\_start, year\_end.

## Steps to Accomplish the Task

### 1 Setup and Configuration

- Set up a Java console application project.
- Include any necessary libraries for making HTTP requests and parsing JSON.

### 2 API Interaction Class

- Create a class responsible for making API requests. This class will handle URI's and making HTTP GET requests.

### 3 Search Functionality

- Implement methods to construct search queries based on the requirements (photographs and videos from Mars, 2018).
- Parse the search results to extract the necessary information
  - For photographs: the URLs of the images.
  - For videos: the URLs of the video files.

### 4 Testing and Validation

- Manually test the application with the described scenarios to ensure accuracy and reliability.