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****Flask Backend Code for NASA Earth Imagery API****

### Introduction

This Flask backend fetches Earth imagery from NASA’s API based on user-provided latitude, longitude, and date. The backend processes the input, makes an API request, and returns the image URL.

### ****Code Explanation****

### ****Flask Setup:****

* 1. The Flask framework is used to create a web API.
  2. The app runs in debug mode for easy error tracing.

**NASA API Key & URL:**

* 1. The NASA\_API\_KEY is required to authenticate API requests.
  2. The NASA\_URL points to NASA’s Earth Imagery API.

**Function:** get\_nasa\_image(lat, lon, date, dim=0.1)

* 1. Constructs the API request using latitude, longitude, date, and resolution (dim).
  2. Sends a GET request to NASA API and returns the image URL if successful.

**API Endpoint:** /get\_image

* 1. Accepts a **POST request** with a JSON payload (lat, lon, date).
  2. Validates input parameters.
  3. Calls get\_nasa\_image() to fetch the image.
  4. Returns the image URL in JSON format or an error message.

### ****Conclusion****

This Flask backend provides an easy way to fetch satellite images from NASA’s API by handling API requests and returning image links based on user input. It can be integrated into a frontend or used as a standalone API.

🚀 Happy Coding!