Lambda Generic Producer

The **Lambda Generic Producer** is a lightweight AWS Lambda function designed to act as an intermediary between a source system and a specified endpoint (webhook.site). It receives structured data, validates the content, transforms it into a target model format, and then publishes it to a destination URL. The function supports robust error handling and includes a health check endpoint for operational monitoring.

API Contract

It provides the following endpoints:

- **POST /process/order/v1** - Data validation, transformation, and publication
- **GET /process/order/v1/healthCheck** - Lambda health status

Order Publish Endpoint

Description:
Accepts an order payload, validates and transforms the data, and publishes it to a webhook endpoint.

- **Method:** POST

- **Path:** /process/order/v1

Request

Need to upload source input payload data in **JSON** format in the request body.

Responses

Status Code	Result	Description
200	Success	Request was successfully processed and data was published.
400	Validation Error	Input JSON is missing required fields or contains invalid values.
500 / 502	Webhook/Publishing Error	Failure to send data to the downstream service
404	Invalid Path	The requested endpoint does not exist.
500	Internal Error	Unexpected or unhandled error within the Lambda function.

Health Check Endpoint

Description:

Provides the current health status of the Lambda function. Intended for monitoring or uptime checks.

- **Method**: GET

- **Path**: /process/order/v1/healthCheck

Request

No request body required.

Resp

Status Code	Result	Description
200	Ok	Lambda is operational.
503	Service Unavailable	Lambda encountered an internal issue or is unreachable.

Troubleshooting Guide

Issue	Probable Cause	Suggested Fix
400 Validation Error	Malformed or missing request fields	Ensure all required fields are present and orderDate is in MM/DD/YYYY format
500/502 Webhook Error	Misconfigured or unavailable webhook	Confirm WEBHOOK_URL is set correctly and the downstream service is reachable
404 Not Found	Incorrect API path used	Use valid endpoints: /v1 or /healthCheck
500 Internal Error	Runtime or logic error in Lambda	Review logs in CloudWatch, check environment variables and dependencies

Testing Setup

To test this Lambda function using webhook.site, follow these steps:

Step 1: Obtain Webhook URL

1. Navigate to https://webhook.site

2. A unique URL is automatically generated. Copy this URL.

Step 2: Configure the Lambda Environment

1. Open your Lambda function in the AWS Console.

2. Set an environment variable:

   o **Key**: WEBHOOK_URL

   o **Value**: (Paste your unique webhook.site URL)

Step 3: Invoke the Lambda via POST

 Use curl, Postman, or another tool to send a sample POST request

Step 4: Verify the Output

- Return to webhook.site and refresh.

- You should see the transformed payload delivered to the webhook.