

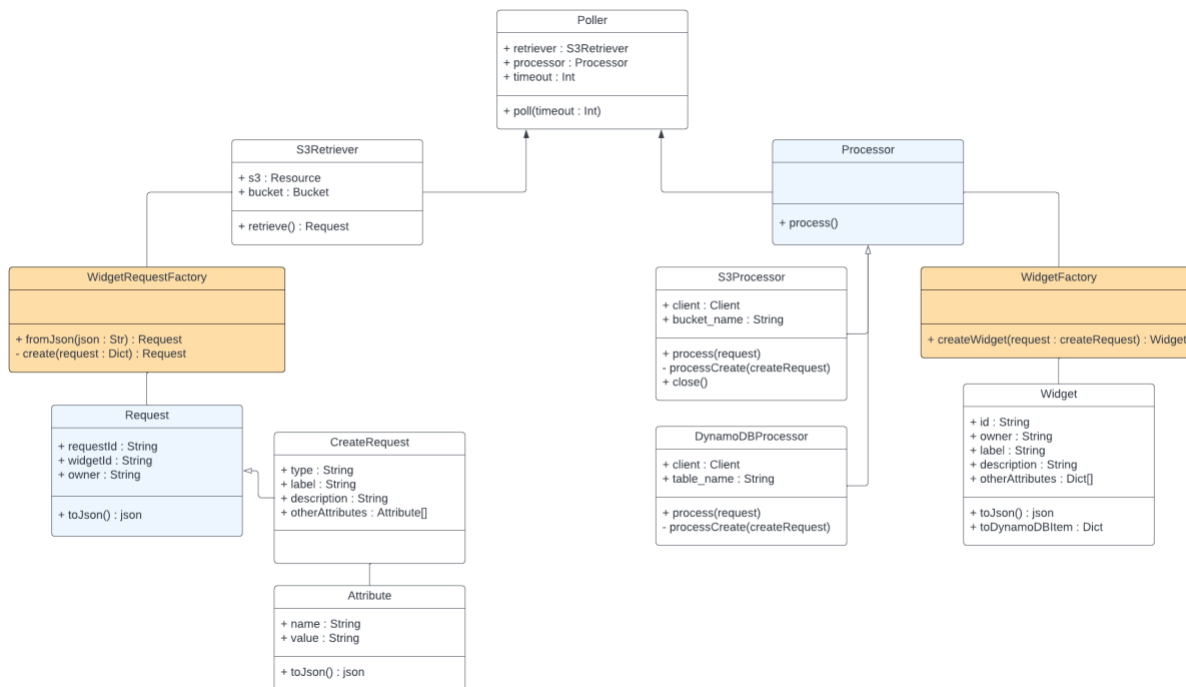
# Consumer Program

## Overview

The consumer program accepts four parameters:

1. retrieval source type - *s3*
2. retrieval source name - *bucket name*
3. process destination type - *s3, dynamodb*
4. process destination name - *bucket name, table name*

The responsibilities of this program are divided primarily into three objects - a **Poller**, a **Retriever**, and a **Processor**.



## Poller

The poller manages the looping nature of the program. Composed of both a retriever and processor, the poller instructs the retriever to retrieve and, if needed, the processor to process the retrieved request. If no request is retrieved, the poller awaits a specified timeout duration and tries again. In the case of 5 consecutive failed retrievals, the program exits.

## Retriever

Using Boto3, the retriever obtains JSON requests from the specified source. It uses a **WidgetRequestFactory** to translate the request from JSON to a **Request** object and returns it to the poller.

## Processor

The processor obtains the request object and determines the request type. Currently, only *create* is supported. The processor then processes the request according to its type. In the case of a create request, the item is uploaded to the specified resource via Boto3.

## Additional Visualization

