Worker Script

File: workers/imageWorker.js

Function: startProcessing

Description: This function is responsible for processing pending image processing requests asynchronously.

Steps:

1. **Connect to MySQL:**
   Establish a connection to the MySQL database using the connection details provided in the configuration file.

2. **Fetch Pending Requests:**
   Retrieve all requests with the status PENDING from the Request table.

3. **Process Each Request:**

   o   For each pending request:

       ▪   Update its status to PROCESSING.

       ▪   Call the processImages function from the imageProcessor service to process the images associated with the request.

Service: processImages

File: services/ImageProcessor.js

Function: processImages

Description: This function handles the actual image processing for each request.

Steps:

1. **Fetch Products:**
   Retrieve all products associated with the given request ID from the Product table.

2. **Process Each Image:**

   o   For each product:

       ▪   For each input image URL:

           ▪   Download the image.

           ▪   Compress the image.

           ▪   Generate a new output URL.

       ▪   Update the product record with the new output image URLs in the Product table.

3. **Update Request Status:**
   Once all images are processed:

- o Update the request status to COMPLETED or FAILED in the Request table based on the result.
- o Send a notification to the specified webhook URL.