Worker Script

File: utils/processImages.ts
Function: startProcessing
Description: This function manages the execution of pending image processing requests.

Steps:

1. **Connect to Database: Establish a connection to the PostgresSQL database using the configured connection string from NeonDB.**

2. **Retrieve Pending Requests: Query the Request collection to find all requests that have a PENDING status.**

3. **Handle Each Request:**

   o **Update the status of each pending request to IN-PROGRESS.**

   o **Use the processImages function from the imageProcessor service to handle the image processing related to the request.**

Service: processImages

File: utils/imageProcessor.ts
Description: This function performs the core image processing tasks.

Steps:

1. **Get Associated Products: Fetch all products tied to the specific request ID from the Product collection.**

2. **Process Images:**

   o **For each product, download and compress each input image URL, then generate a new output URL.**

   o **Update the product's record with the newly generated output image URLs.**

3. **Update Progress Status: After processing all images, update the request status to either COMPLETED or FAILED and send a webhook notification regarding the task completion.**