

## **Asynchronous Workers Documentation**

### **Worker Script**

**File:** workers/processImages.py

**Function:** start\_processing

**Description:** This function handles the processing of pending image processing requests.

#### **Steps:**

##### **1. Connect to Database:**

- Establish a connection to the database using the provided connection string from the configuration.

##### **2. Fetch Pending Requests:**

- Retrieve all requests with the status PENDING from the Request collection.

##### **3. Process Each Request:**

- For each pending request, update its status to PROCESSING.
- Call the process\_images function from the image\_processor service to process the images associated with the request.

**Service:** process\_images

**File:** services/image\_processor.py

**Description:** This function is responsible for the actual image processing.

**Steps:**

**1. Fetch Products:**

- Retrieve all products associated with the given request ID from the Product collection.

**2. Process Each Image:**

- For each product, process each input image URL by:
  - Downloading the image.
  - Compressing the image.
  - Generating a new output URL.
- Update the product document with the new output image URLs.

**3. Update Request Status:**

- Once all images are processed, update the request status to COMPLETED or FAILED.
- Send a notification to the webhook URL.