

Image Processing System API Documentation Overview

This API service processes image data from CSV files, compresses images, and provides status updates for processing requests.

Base URL

<https://image-processing-system-os5s.onrender.com>

API Endpoints

1. Upload CSV

Uploads a CSV file containing product and image information.

Endpoint:

POST /upload

Request:

- **Content-Type:** multipart/form-data
- **Body Parameter:**
 - file: CSV file (**required**)

CSV Format:

S. No.,Product Name,Input Image Urls

21,SKU1,https://example.com/image1.jpg

32,SKU2,https://example.com/image2.jpg

Success Response:

```
{
  "requestId": "661e656f-e896-4844-9c3a-a6650f1244c7",
  "message": "File uploaded successfully. Image processing started.",
  "productsProcessed": 2
}
```

- **Status Code:** 202 Accepted

Error Response:

```
{
  "error": "No file uploaded",
  "message": "Please select a CSV file to upload"
}
```

- **Status Code:** 400 Bad Request

2. Check Status

Retrieves the processing status of a specific request.

Endpoint:

GET /status/{requestId}

Parameters:

- requestId: Unique identifier received from the upload response (**required**)

Success Response:

```
{
  "requestId": "661e656f-e896-4844-9c3a-a6650f1244c7",
  "status": "COMPLETED",
  "createdAt": "2024-01-20T10:30:00.000Z",
  "updatedAt": "2024-01-20T10:31:00.000Z",
  "products": [
    {
      "serialNumber": 1,
      "productName": "SKU1",
      "inputImageUrls": ["https://example.com/image1.jpg"],
      "outputImageUrls": ["http://localhost:3000/processed/image1_processed.jpg"]
    }
  ]
}
```

- Status Code:** 200 OK

Error Response:

```
{
  "error": "Request not found",
  "requestId": "invalid-id"
}
```

- Status Code:** 404 Not Found

3. Download Processed CSV

Downloads a CSV file containing both input and output image URLs.

Endpoint:

GET /status/{requestId}/csv

Parameters:

- requestId: Unique identifier received from the upload response (**required**)

Success Response:

- **Content-Type:** text/csv
- **File Download:** output_{requestId}.csv

CSV Output Format:

S. No.,Product Name,Input Image Urls,Output Image Urls

21,SKU1,https://example.com/image1.jpg,http://localhost:3000/processed/image1_processed.jpg

Status Codes

- 200: Success
- 202: Accepted (Processing Started)
- 400: Bad Request
- 404: Not Found
- 500: Internal Server Error

Processing States

- **PENDING:** Request received
- **PROCESSING:** Images being processed
- **COMPLETED:** All processing finished
- **FAILED:** Processing error occurred

Image Processing

- Images are compressed to **50% of original quality**
- Processed images are stored in the /uploads/processed directory
- Output URLs are generated for each processed image

Sample Usage

Using cURL

Upload CSV

curl -X POST -F "file=@test.csv" https://image-processing-system-os5s.onrender.com/upload

Check Status

curl https://image-processing-system-os5s.onrender.com/status/661e656f-e896-4844-9c3a-a6650f1244c7

Download Processed CSV

curl https://image-processing-system-os5s.onrender.com/status/661e656f-e896-4844-9c3a-a6650f1244c7/csv

Using Postman

1. Upload CSV:

- **Method:** POST
- **URL:** https://image-processing-system-os5s.onrender.com/upload
- **Body:** form-data
 - **Key:** file (Type: File)
 - **Value:** Select CSV file

2. Check Status:

- **Method:** GET
- **URL:** https://image-processing-system-os5s.onrender.com/status/{requestId}

3. Download CSV:

- **Method:** GET
 - **URL:** https://image-processing-system-os5s.onrender.com/status/{requestId}/csv
-

Error Handling

Common error responses include:

```
{  
  "error": "Error type",  
  "message": "Detailed error message"  
}
```