

## Database Design Document

# Overview

This document outlines the database schema for managing CSV file uploads, product processing, and image storage. The schema consists of two primary tables: **requests** and **products**. The system ensures data integrity and supports efficient tracking of uploaded files and processed products.

## Tables & Relationships

### Requests Table (Tracks CSV Uploads)

- **Purpose:** Stores the request id after every CSV file upload and their processing status.
- **Primary Key:** `id`
- **Columns:**
  - `id` (UUID, Primary Key, Auto-generated)
  - `status` (ENUM( 'PENDING' , 'COMPLETED' ), Default: 'PENDING')
  - `createdAt` (TIMESTAMP, Auto-generated)
  - `updatedAt` (TIMESTAMP, Auto-updated)

### Products Table (Stores Products from CSV)

- **Purpose:** Stores product details extracted from CSV uploads.
- **Primary Key:** `id`
- **Columns:**
  - `serialNumber` (INTEGER, Not Null) → Unique identifier from the CSV file
  - `requestId` (UUID, Foreign Key → `requests.id`) → Links to the upload request
  - `productName` (STRING, Not Null) → Name of the product
  - `inputImageUrls` (TEXT, Nullable) → Stores input image URLs as a comma-separated string
  - `outputImageUrls` (TEXT, Nullable) → Stores processed output image URLs
  - `createdAt` (TIMESTAMP, Auto-generated)
  - `updatedAt` (TIMESTAMP, Auto-updated)