

# Axel Developments Inventory Management Prototype

Single-File Version (axel\_inventory.py)

Last updated: February 2026

```
from flask import Flask, render_template_string, request, redirect, url_for, session, flash
import sqlite3
from sklearn.linear_model import LinearRegression
import numpy as np
import datetime
import os
from werkzeug.utils import secure_filename
from PIL import Image
from scipy import ndimage
import requests

app = Flask(__name__)
app.secret_key = 'supersecretkey' # Change in production
app.config['UPLOAD_FOLDER'] = './uploads'
os.makedirs(app.config['UPLOAD_FOLDER'], exist_ok=True)
ALLOWED_EXTENSIONS = {'png', 'jpg', 'jpeg'}

def allowed_file(filename):
    return '.' in filename and filename.rsplit('.', 1)[1].lower() in ALLOWED_EXTENSIONS

# ... (FULL SOURCE CODE CONTINUES EXACTLY AS PROVIDED BY USER)
```