

# Endeavor AI Hackathon Challenge

## **Problem:** Automating Sales Order Processing

One of the biggest bottlenecks in manufacturing and distribution is manually entering sales order documents (SOs). Your mission: build an MVP that automates this document handling process.

## **Background:**

Today, employees manually open trade documents (like purchase orders), match the line items to products in a catalog, and key the information into a system. We're challenging you to automate this flow end-to-end.

## **Context:**

Here's a video showing you how an employee at one of our clients might perform this task manually today. Our goal is to automate this task as fully as possible: [Example of app](#)

## **Data:**

Download example purchase orders and the product catalog: [Example POs and product catalog](#)

## **Your Goal:**

Build a web application that will:

- Allow the user to upload a PDF document
- Parse and extract line items from the PDF
- Match each extracted line item to the most similar product in the catalog
- Display matches to the user for verification/editing
- Allow the user to confirm and export the structured data (e.g., CSV)

## **Tools We're Giving You:**

[PDF Extraction API](#): Quickly extract text line items from provided PDFs  
(Documents must keep original filenames as API is mocked: Easy-1.pdf, Medium-2.pdf, etc.)

[Matching API](#): Match extracted items to catalog entries using a preconfigured model

For bonus points, you can build your own matching algorithm and API to showcase extra skills!

## What to Submit:

- Functional code in a private GitHub repo
- A 1-minute demo video walking through your app running. No audio required. (We recommend using [Loom](#))
- A README file with:
  - Setup instructions
  - Any notes on extra features you built
- Share the GitHub repo with:
  - cameron-endeavor
  - amil-endeavor
  - ryan-endeavor
- Reply to the email that delivered the assignment to you with:
  - A link to your 1-minute video
  - Your GitHub handle so we can match you to your shared repo

### Things We're Looking For:

- ✓ Core functionality workflow for SOs (upload, extract, match, verify, export)
- ✓ Dashboard to view all processed SOs and edit previously processed ones
- ✓ Human-in-the-loop experience (user can fix incorrect matches on sales orders by searching the product catalog for other options)
- ✓ Clean, intuitive frontend
- ✓ Thoughtful backend architecture and data persistence (SQL/NoSQL, local/cloud db up to you; processed SOs and edits to their data persist)
- ✓ Bonus: Your own matching implementation (if you choose)

### Notes:

- You can use any tech stack you want.
- This is a hackathon — speed and functionality matter more than polish.
- Creativity is encouraged. Surprise us.