**Process Definition Document (PDD)**

**1. Background**

Currently, inventory data is collected manually from various sources and compiled into a CSV file. The cleaning, processing, and visualization steps are done manually using Excel, which is time-consuming and prone to human error. This RPA project aims to automate the cleaning and basic analysis of inventory data using Python scripts, improving efficiency and reducing errors.

**2. Process Description**

1. Raw inventory data is input in CSV format.

2. The script removes null values, duplicates, and standardizes categories.

3. Cleaned data is exported to a new CSV file (clean\_inventory.csv).

4. Visualizations such as bar and pie charts are generated to help with decision-making.

The overall goal is to transition from a manual to an automated process. Future steps may include implementing the solution within a larger RPA framework such as UiPath or Power Automate.

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