InventoryApp PowerShell Script — User Guide

Overview

This PowerShell script provides an interactive inventory management system to handle pickups, deliveries, returns, transfers, and adjustments. It stores all data in a JSON file and includes secure pickup confirmation via OTP or signature verification.

Prerequisites

Ensure PowerShell 5.1 or 7+ is installed. If PowerShell blocks script execution, run:
Set-ExecutionPolicy -Scope CurrentUser RemoteSigned

Installation Steps

1. Save InventoryApp.ps1 and inventory_store.json to a folder (e.g., C:\InventoryApp)
2. Open PowerShell and navigate to that folder:
cd 'C:\InventoryApp'
3. Run the script:
.\InventoryApp.ps1

First Run

On first launch, the script will create or use inventory_store.json and display an interactive menu with options to manage items and transactions.

Menu Options

1) List Items — Displays current items
2) Add Item — Adds new item to inventory
3) New Transaction — Creates pickup, delivery, return, transfer, or adjustment
4) List Transactions — Lists all transactions
5) Complete Transaction — Finalizes and applies a transaction
6) Report Snapshot — Shows inventory per location
7) Export Snapshot CSV — Exports inventory snapshot
8) Export Transactions CSV — Exports transaction log
9) Backup Store — Saves backup of JSON store
10) Generate Pickup Code — Creates one-time pickup code
11) Confirm Pickup — Confirms pickup via OTP or signature
0) Exit — Quits the menu

Pickup Confirmation

For security, pickups require confirmation before completion. Use:
New-PickupCode -Id -PickerName 'John'
Then confirm with either:

Confirm-Pickup -Id -PickerName 'John' -Code 123456
or
Confirm-Pickup -Id -PickerName 'John' -SignaturePath 'C:\signatures\john.png'

Data Storage

All inventory, location, and transaction data is stored in inventory_store.json in the same folder as the script. Backups can be created manually or via the menu.

Troubleshooting

• If the script won't run: Run Set-ExecutionPolicy -Scope CurrentUser RemoteSigned
• If nothing happens: Run . .\InventoryApp.ps1 then Show-InventoryMenu
• If completion fails: Confirm pickup first before completing.

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