🧾 Inventory Management System

📌 Description

A GUI-based Inventory Management System built using Python and Tkinter. It helps small businesses manage their stock by allowing them to add, update, delete, and search inventory items. It also supports CSV export, total inventory value calculation, and alerts for low stock levels.

🧱 Features

- Add, update, delete, and search inventory items
- View total inventory value
- Export inventory data to CSV
- Restock alerts for low quantity
- User-friendly GUI with real-time table display

💻 Technologies

- Python 3.x
- Tkinter
- CSV (built-in)

🗜️ Getting Started

Create and activate a virtual environment

```
python -m venv .venv
# Windows
.\.venv\Scripts\activate
# macOS/Linux
source .venv/bin/activate
```

Install dependencies

```
pip install -r requirements.txt
```

Run the app

```
python inventory_gui.py
```

📄 Requirements

```
tkinter
```

🛠️CLI-Based Project Tracker with GUI

📌Description

A GUI-based project tracker that helps freelancers or developers track project hours, time logs, billing, and notes. It allows project-wise log entries, hourly billing computation, summary generation, and CSV export.

🧱Features

- Add projects with hourly rate
- Log work hours with notes
- View logs in a dynamic table
- Generate and view billing summaries
- Export time logs to CSV
- GUI built using Tkinter

💻Technologies

- Python 3.x
- Tkinter
- CSV
- datetime

🗜️ Getting Started

Create and activate a virtual environment

```
python -m venv .venv
# Windows
.\.venv\Scripts\activate
# macOS/Linux
source .venv/bin/activate
```

Install dependencies

```
pip install -r requirements.txt
```

Run the app

```
python project_tracker.py
```

📄 Requirements

```
tkinter
```

🩲DNS Lookup and Traceroute Tool

📌Description

A Python-based network diagnostic tool that performs DNS resolution, traceroutes, and latency checks. It helps users and network engineers analyze connectivity issues.

🧱Features

- DNS Lookup
- ICMP-based Traceroute
- Latency testing using ping logic

💻Technologies

- Python 3.x
- socket
- scapy
- time

🗜️ Getting Started

Create and activate a virtual environment

```
python -m venv .venv
# Windows
.\.venv\Scripts\activate
# macOS/Linux
source .venv/bin/activate
```

Install dependencies

```
pip install scapy
```

Run the app

```
python dns_tool.py
```

📄 Requirements

```
scapy
```

⚠️ Note: You might see a `No libpcap provider available` warning. It can be ignored if basic traceroute and ping are functioning.

📁 Advanced File Organizer Bot

📌Description

An intelligent file organization bot with a GUI that monitors a selected folder and organizes files in real-time based on extension, type, or size. Ideal for automating cleanup in Downloads or Desktop folders.

🧱Features

- GUI for selecting folder and sorting options
- Organizes files by extension/type/size
- Real-time monitoring using Watchdog
- Auto-creates categorized folders

💻Technologies

- Python 3.x
- Tkinter
- Watchdog
- OS / shutil

🗜️ Getting Started

Create and activate a virtual environment

```
python -m venv .venv
# Windows
.\.venv\Scripts\activate
# macOS/Linux
source .venv/bin/activate
```

Install dependencies

```
pip install watchdog
```

Run the app

```
python file_organizer.py
```

📄 Requirements

```
watchdog
```

✅Each project includes clean UI, error handling, and is beginner-friendly yet practical for real-world use.