# **Car Dealership Inventory Tracker**

## **Overview**

The Car Dealership Inventory Tracker is a Python-based application designed to help car dealerships manage their inventory efficiently. The system allows users to add, remove, search, and mark cars as sold using a graphical user interface (GUI) built with Tkinter. Data is stored in a CSV file for persistence and easy retrieval.

## **Features**

* **Add Cars**: Users can add new cars to the inventory with details such as Make, Model, Year, Price, and Status.
* **Remove Cars**: Cars can be removed from the inventory based on their model.
* **Mark as Sold**: Cars can be marked as "Sold" when purchased.
* **Search Cars**: Users can search for cars based on Make, Price, and Year.
* **View Inventory**: Displays all available and sold cars in a tabular format.
* **Persistent Storage**: Data is stored in a CSV file for easy retrieval and backup.

## **Installation**

### **Prerequisites**

Ensure you have Python installed on your system. You can check this by running:

python --version

If Python is not installed, download and install it from [python.org](https://www.python.org/).

### **Clone the Repository**

*git clone https://github.com/yourusername/car-inventory-tracker.git*

cd car-inventory-tracker

### **Install Dependencies**

This project uses only built-in Python libraries, so no additional dependencies are required.

## **Usage**

### **Running the Application**

To start the application, run:

python app.py

### **User Interface**

* **Adding a Car**: Enter the car details (Make, Model, Year, Price) and click the Add Car button.
* **Removing a Car**: Select a car from the list and click Remove Car.
* **Marking a Car as Sold**: Select a car and click Mark as Sold.
* **Searching for a Car**: Enter search criteria and click Search.

## **File Structure**

car-inventory-tracker/

│── inventory.csv # Stores car inventory data

│── app.py # Main application script (entry point)

│── gui.py # Handles the graphical user interface

│── inventory.py # Manages inventory operations (add, remove, search, mark as sold)

│── README.md # Project documentation