User Manual for Madhumal Motors Inventory and Sales System

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# Introduction

This system was developed for Madhumal Motors, a motorcycle dealership based in Kaduwela, Sri Lanka. It is a simple, command-line interface (CLI) based application designed to help manage the dealership's motorcycle inventory and daily sales operations efficiently.  
  
This manual outlines the program's structure, describes the functionality of each module, and provides sample outputs to demonstrate its capabilities.

# Program Objectives

1. Add motorcycles (make, model, quantity, price)  
2. Search for the price of a specific model  
3. Sell motorcycles and generate invoices  
4. Display inventory reports  
5. Navigate through a menu-driven CLI

# Program Structure

The system is implemented in Python using a procedural programming approach. The core components are as follows:

## 1. Data Storage

Motorcycles are stored in a list of dictionaries called `inventory`.

{'make': 'Honda', 'model': 'CBR500R', 'quantity': 5, 'price': 1200000}

## 2. Main Functions

* add\_motorcycle(): Allows the user to add a new motorcycle or update quantity if the make and model already exist.
* search\_price(): Searches the price of a motorcycle based on make and model.
* sell\_motorcycle(): Handles motorcycle sales. It checks inventory, reduces stock, and generates a printed invoice.
* display\_inventory(): Prints a summary report of all available motorcycles and their quantities.
* main\_menu(): Displays the CLI menu and allows users to navigate system features.

# Sample Outputs

1. 1. Add Motorcycle

Enter make: Honda  
Enter model: CB350  
Enter quantity: 5  
Enter price: 1250000  
Motorcycle added successfully.

1. 2. Search Price

Enter make: Honda  
Enter model: CB350  
The price of Honda CB350 is LKR 1250000

1. 3. Sell Motorcycle (Invoice)

Enter make: Honda  
Enter model: CB350  
Enter quantity to sell: 2  
----- INVOICE -----  
Make: Honda  
Model: CB350  
Quantity: 2  
Unit Price: LKR 1250000  
Total Price: LKR 2500000  
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1. 4. Inventory Report

----- INVENTORY REPORT -----  
Make: Honda, Model: CB350, Quantity: 3  
Make: Yamaha, Model: FZ, Quantity: 7  
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# Extra Features (Optional / Bonus)

- Exporting and importing inventory via CSV files  
- Stock threshold alerts (e.g., low inventory warning)  
- Enhanced input validation (e.g., rejecting negative or invalid data)  
- Admin PIN or password protection for sensitive operations

# Conclusion

This CLI-based inventory and sales management system is practical, lightweight, and well-suited for small businesses like Madhumal Motors. It streamlines the key tasks of adding inventory, checking prices, handling sales, and reviewing stock levels.  
  
Its user-friendly text-based interface makes it easy to use without requiring GUI tools, making it ideal for quick deployment in real-world settings.

📎 Please test the program using the link below before submission.

🔗 Colab Link: [Insert Your Link Here]