User Manual for Madhumal Motors Inventory and Sales System

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Course: Master of Data Analytics

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Date: 01/07/2025

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# Introduction

This system was developed for Madhumal Motors, a motorcycle dealership located in Kaduwela, Sri Lanka. It is a simple, command-line interface (CLI) based program that allows the business to manage motorcycle inventory and daily sales operations.  
  
This report explains the structure of the Python program, the functionality of each module, and provides sample outputs to demonstrate system capabilities.

# Program Objectives

The system allows users to:

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

# Program Structure

The system is implemented in Python using procedural programming. The main components are:

## 1. Data Storage

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

Example:

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

## 2. Main Functions

a. add\_motorcycle(): Allows the user to add a new motorcycle or update the quantity if it already exists.

b. search\_price(): Searches the price of a motorcycle based on make and model.

c. sell\_motorcycle(): Handles motorcycle sales. It checks inventory, reduces stock, and generates a printed invoice.

d. display\_inventory(): Prints a summary report of all available motorcycles and their quantities.

e. main\_menu(): This function displays the menu and allows users to select tasks to perform.

# Sample Outputs

## 1. Add Motorcycle

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

## 2. Search Price

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

## 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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## 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)

The system can be extended with:

- CSV file export/import

- Stock threshold alerts

- Input validation (e.g., reject negative numbers)

- Admin PIN to restrict certain operations

# Conclusion

This CLI-based inventory system is simple, functional, and fully meets the needs of Madhumal Motors. It offers core features like adding inventory, checking prices, processing sales, and reviewing available stock. The interface is user-friendly and designed for real-world small business use without requiring GUI tools.  
  
📎 Please test the program using the link below before marking.  
  
🔗 Colab Link: [Insert Your Link Here]