



PYTHON  
INTERNATIONAL  
DEVELOPER

USER GUIDE FOR

# INVENTORY MANAGEMENT SYSTEM IMS

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# INTRODUCTION

This user guide provides instructions for using the Inventory Management System. Developed using Python, this system is specifically designed to manage your inventory efficiently and quickly. Due to the fast-paced nature of data entry and inventory management, this system has been designed without a graphical user interface. This design ensures quick response times and prevents system downtime, allowing authorized data entry personnel to make modifications and additions effectively.

## GETTING STARTED!!

1. **ENSURE YOU HAVE PYTHON 3 AND THE SQLITE3 LIBRARY INSTALLED ON YOUR SYSTEM.**
2. **[DOWNLOAD](#) OR COPY THE *IMS.PY* SCRIPT.**
3. **OPEN A TERMINAL OR COMMAND PROMPT AND NAVIGATE TO THE DIRECTORY CONTAINING THE SCRIPT.**
4. **RUN THE SCRIPT USING THE FOLLOWING COMMAND: *PYTHON IMS.PY***
5. **USING THE SYSTEM.**

## THE SYSTEM PRESENTS A MENU-DRIVEN INTERFACE WITH THE FOLLOWING OPTIONS:

### OPTION DESCRIPTION:

1. ADD ITEM ADD A NEW ITEM TO THE INVENTORY.
2. DELETE ITEM DELETE AN EXISTING ITEM FROM THE INVENTORY.
3. SEARCH ITEM SEARCH FOR ITEMS IN THE INVENTORY BASED ON THE ITEM NAME.
4. EDIT ITEM EDIT THE DETAILS OF AN EXISTING ITEM.
5. DISPLAY INVENTORY VIEW ALL ITEMS IN THE INVENTORY WITH THEIR QUANTITIES, PRICES, AND TOTAL VALUE.
6. EXIT CLOSE THE PROGRAM AND SAVE ANY CHANGES MADE TO THE INVENTORY.

- **ADDING AN ITEM:**

SELECT OPTION 1 (ADD ITEM) FROM THE MAIN MENU.

ENTER THE ITEM NAME, QUANTITY (POSITIVE NUMBER), PRICE (POSITIVE NUMBER), AND OPTIONAL CATEGORY.

THE SYSTEM WILL VALIDATE YOUR INPUT AND ADD THE ITEM TO THE INVENTORY DATABASE.

- **DELETING AN ITEM:**

SELECT OPTION 2 (DELETE ITEM) FROM THE MAIN MENU.

ENTER THE NAME OF THE ITEM YOU WANT TO DELETE.

THE SYSTEM WILL CONFIRM THE DELETION AND REMOVE THE ITEM FROM THE INVENTORY IF FOUND.

- **SEARCHING FOR ITEMS:**

SELECT OPTION 3 (SEARCH ITEM) FROM THE MAIN MENU.

ENTER A KEYWORD OR PART OF THE ITEM NAME YOU WANT TO SEARCH FOR.

THE SYSTEM WILL DISPLAY ALL MATCHING ITEMS IN THE INVENTORY.

- **EDITING AN ITEM:**

SELECT OPTION 4 (EDIT ITEM) FROM THE MAIN MENU.

ENTER THE NAME OF THE ITEM YOU WANT TO EDIT.

THE SYSTEM WILL RETRIEVE THE ITEM'S DETAILS.

ENTER NEW VALUES FOR QUANTITY AND PRICE (POSITIVE NUMBERS).

THE SYSTEM WILL UPDATE THE ITEM'S INFORMATION IN THE INVENTORY.

- **DISPLAYING THE INVENTORY:**

SELECT OPTION 5 (DISPLAY INVENTORY) FROM THE MAIN MENU.

THE SYSTEM WILL DISPLAY A LIST OF ALL ITEMS IN THE INVENTORY, INCLUDING THEIR QUANTITIES, PRICES, AND THE TOTAL INVENTORY VALUE.

- **EXITING THE SYSTEM:**

SELECT OPTION 6 (EXIT) FROM THE MAIN MENU.

THE SYSTEM WILL CLOSE THE DATABASE CONNECTION AND TERMINATE THE PROGRAM.

### ADDITIONAL NOTES

**THE SYSTEM USES AN SQLITE DATABASE TO STORE INVENTORY DATA.**

**THE DATABASE FILE (INVENTORY.DB) IS CREATED AUTOMATICALLY UPON FIRST USE.**

**REMEMBER TO EXIT THE PROGRAM PROPERLY TO SAVE ANY CHANGES MADE TO THE INVENTORY.**

**THANK YOU FOR USING THE INVENTORY MANAGEMENT SYSTEM!**